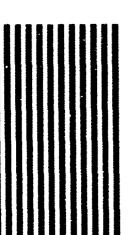
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ATMOSPHERIC CHEMISTRY OF HYDROCARBON FUELS

VOLUME II: OUTDOOR CHAMBER DATA TABULATIONS (PART II)

WILLIAM P. L. CARTER, PAUL S. RIPLEY, CECIL G. SMITH, AND JAMES N. PITTS, JR. STATEWIDE AIR POLLUTION RESEARCH CENTER UNIVERSITY OF CALIFORNIA RIVERSIDE, CALIFORNIA 92521

NOVEMBER 1981

FINAL REPORT
MARCH 1980 - SEPTEMBER 1981

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High-Energy Fuels Environmental Simulation
Ozone Formation Environmental Quality

Atmospheric Reactivity Missile Fuels

20 ABSTRACT (Continue on reverse side if necessary and identify by block number)

A total of 132 single- and multi-day outdoor environmental chamber experiments were conducted in this program involving nine different aviation and automotive fuels. These included the petroleum-derived JP-4 and JP-8 military aviation fuels, their shale-oil derived analogues, unleaded gasoline. diesel No. 2 fuel, and the experimental high-energy cruise-missile fuels JP-10, RJ-4, and RJ-5. The program was conducted to assess the potential of

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1	these fuels to adversely affect air quality.
1	This is Volume II of the report. Due to printing limitations, Volume II
1	consists of two separately bound parts which contain the detailed data sheets
ı	for the outdoor chamber experiments. This is Part II of Volume II.
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PREFACE

This report was prepared by the Statewide Air Jollution Research Center (SAPRC) of the University of California, Riverside, California 92521, under program element 1900, project 20, subtask 20, with the Air Force Engineering and Services Center, Tyndall Air Force Base, Florida 32403.

This report is presented in two volumes. Volume I contains a description of the experiments conducted under this program and a discussion of the results obtained. Volume II contains the detailed data sheets for the outdoor chamber runs in two separate parts. This is Volume II, Part II.

The work was performed during the period March 1980 through September 1981 under the direction of Dr. James N. Pitts, Jr., Director of SAPRC and Principal Investigator, and Dr. William P. L. Carter, Project Manager.

The principal research staff on this program were Mr. Paul S. Ripley and Ms. Cecil G. Smith. Drs. Roger Atkinson and Arthur M. Winer (Assistant Director of SAPRC) participated in the supervision of this program, in technical discussions, and in the preparation of this report.

Assistance in conducting this program was provided by Mr. Dennis R. Fitz, Ms. Sara M. Aschmann, Mr. Frank R. Burleson, Ms. Margaret C. Dodd, Mr. Robert E. Burkey, Jr., Ms. JoMarie Faulkerson, and Mr. Glen C. Vogelaar. The gas chromatographic-mass spectrographic analyses were conducted by Mr. Thomas S. Fisher, and assistance in processing the data was provided by Mr. Jeffrey Everett, Mr. Joseph P. Lick, and Ms. Laurie A. Willis.

Appreciation is expressed to Ms. Christy J. Ranck, Ms. I. M. Minnich, Dr. Marian C. Carpelan, and Ms. Minn P. Poe for assistance in the preparation of this report.

The support and contribution to the conduct of this program by Dr. Daniel A. Stone, Project Officer, Maj. Ron Channell, and LtCol. Michael MacNaughton, Chief of the Environmental Sciences Division at the inception of this program are gratefully acknowledged.

This report has been reviewed by the Public Affairs Office (PA) and is releasable to the National Technical Information Service (NTIS). At NTIS it will be available to the general public, including foreign nationals.

This technical report has been reviewed and is approved for publication.

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Dir, Engineering & Services

Laboratory

TABLE OF CONTENTS

Section	<u>Title</u>	Page*
I	INTRODUCTION	1
II	OUTDOOF CHAMBER DATA LISTINGS (concluded)	

^{*}Page numbers remain the same for the INTRODUCTION in Part II as they were in Part I, since they are merely repeated for clarity. Page numbers for the OUTDOOR CHAMBER DATA LISTINGS are sequential through Part I and Part II of Volume II.

LIST OF TABLES

<u>Table</u> <u>Title</u> <u>Page</u>

Representative Abbreviations Used in the Data Tabulations... 3

SECTION I

INTRODUCTION

In order to investigate the atmospheric impact of releases of hydrocarbon fuels used in military aircraft operations, and to obtain a data base from which the atmospheric reactivities of different types of military and commercial fuels can be compared, a series of outdoor environmental chamber irradiations, employing natural sunlight, were performed under contract for the United States Air Force. The military fuels studied included both petroleum— and shale-derived JP-4 and JP-8, the experimental high-energy cruise missile fuels JP-10, RJ-4, and RJ-5, and, for comparison purposes, the commercial fuels diesel No. 2 and unleaded gasoline. In this volume, the detailed data tabulations for these outdoor chamber irradiations employing these fuels, and the associated array of control and chamber characterization experiments, are given.

The data tabulations, given in section II of this volume, include the following information for each run (where applicable):

- The Air Force Fuels (AFF) run number, ranging from AFF-2 through AFF-132, excluding AFF-96. (Data for runs AFF-1 and AFF 96 are not included because these were aborted before usable data were obtained).
- A brief run description.
- The date the run was performed (below run description).
- The date the tabulation was printed (right hand corner on each page).
- Comments for the run. These include: major operations or observations taken from the laboratory log book; problems encountered during the run (where applicable); major calculated results (for characterization runs such as 03 decays, pure air photolyses, NO_X-air irradiations, etc.) and (for multi-day runs) daily averages of temperature and UV intensity.
- Summaries of overall averages of all measurements of temperature,
 UV intensity, and (in some cases) dew point.

- Initial concentrations of NO, NO₂, total hydrocarbon, and (for n-butane runs) n-butane.
- Lists of all instruments used in these runs (including in some cases instruments whose data are not reported on the sheets (see below). For each instrument, this list indicates the ID number (used internally at SAPRC), the label identifying the instrument on the data tabulation, and a brief description giving information identifying the instrument and/or technique.
- The data tabulations. The tabulations indicate the compound or parameter measured, the units in which the measurements are reported, the instrument, and (for dual chamber runs) the chamber side number. Because of space and format limitations, the compound and parameter names and the units of the measurements frequently had to be abbreviated on the tabulations. The meanings of representative abbreviations which may not be obvious are listed on Table 1. For each data point, the day ("DY"), the clock time (always Pacific Standard Time), and the elapsed time (in minutes) since the chamber was uncovered (or since the first measurement for dark runs) are indicated.
- If any of the data are flagged (indicated by an "A", or "B", etc., immediately to the right of the value), footnotes giving the reason it is flagged appear at the end of the tabulation for the run.

A number of measurements were made which are not reported on the tabulations in order to reduce their bulk. These include primarily gas chromatographic measurements of low levels of trace species present in the pure air used for the fuel runs, methane (which is always present at its approximate atmospheric background levels, and is inert), and unidentified or minor fuel components. These data are kept on file at the Statewide Air Pollution Research Center (University of California, Riverside, CA 92521-0312) and are available upon request. In addition, the entire data set is available in computer-readable format, and information concerning this is available from Dr. William P. L. Carter at the above address.

TABLE 1. REPRESENTATIVE ABBREVIATIONS USED IN THE DATA TABULATIONS.

Chemical Species

	· · · · · · · · · · · · · · · · · · ·
Abbreviation	Meaning
NO2-UNC	NO ₂ readings, uncorrected for interferences by
	peroxyacyl nitrates and other organic nitrates.
1-C4=	1-But ene
I-C4=	Isobutene
I-C5	2-Methyl butane (isopentane)
N-C5	n-Pentane
CYCL-C5	Cyclopentane
C5-ISOMS	Unidentified pentane isomers
0-XYL	ortho-Xylene
M+P-XYL	meta + para Xylenes (not separated)
C2BENZ	Ethylbenzene
I-C3-BZ	Isopropylbenzene
124TMEBZ	1,2,4-Trimethy1benzene
ACETALD	Acetyldehyde
MEK	Methyl ethyl ketone
PAN	Peroxyacetyl nitrate
C4-N-2	2-Butyl nitrate
THC	Total hydrocarbons
NMHC	Non-methane hydrocarbons

Aerosol Parameters

Abbreviation	Meaning
CONDENS	Condensarion nuclei
#PART>.5	Number of particles > 0.5 microns diameter
AER.V	Aerosol volume
AER • N	Aerosol number (total number of particles)
AER.S	Aerosol surface area
PART • 075	Number of particles in the size range centered at
	0.075 microns diameter

TABLE 1. REPRESENTATIVE ABBREVIATIONS USED IN THE DATA TABULATIONS (concluded).

Units of Measurement

Abbreviation	<u>Meaning</u>
MW/CM2	Milliwatt cm ⁻²
PART/CC	Particle cm ⁻²
10E3/CC 10-4 M-1	(Particle cm ⁻³) x 10^{-3} (Meter ⁻¹) x 10^4
UM3/CC	Micrometer 3 cm $^{-3}$ or parts-per-trillion by volume
UM2/CC	Micrometer ² cm ⁻³
RAW DATA	Arbitrary units; no calibration factor is available

Pages 5 through 329 are contained in VolII, part I.

1

1

ID	INST.	AVERAGE VALUE	S.DEV	UNITS	
T	DORIC-1	22.2	5.6	DEG C	SIDE 1
T	DORIC-1	21.9	4.9	DEG C	SIDE 2
UV RAD	EPPLEY-2	2.15	0.70	MW/CM2	
ID	INST.	INITIAL CONC.	UNITS		
NO	B-NOX-1	0.249	MAA	SIDE 1	
NO	B-NOX-1	0.250	PPM	SIDE 2	
NO2-UNC	B-NOX-1	0.107	PPM	SIDE 1	
NO2-UNC	B-NOX-1	0.111	PPM	SIDE 2	
THC	BK6800-1	53.00	PPMC	SIDE 1	
THC	BK6800-1	30.20	PPMC	SIDE 2	

DAY 2

22(+-2)

2.0(+-0.5)

AFF- 71 JP-8(PET) VARIABLE FUEL 1981, APR 9-10

INSTRUMENTS USED

4000 ECD-3

RATE DESCRIPTION ID LABEL (ML/MIN) 2100 PN-1 RM-121 POROPAK-N GC; FID 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID TSI ELECTRICAL AEROSOL ANALYZER MD:3030 4300 TSI-023 4350 CLIMET CLIMET 208 OPTICAL PART. CTR; SN:76-148 ENV ONE RICH100 CONDENS NUCLEI CTR; SN143 4200 CNC-143 1790 D-1790 DASIBI 1790 OZONE MONITOR 4600 B-NDX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 DORIC TEMPERATURE INDICATOR, SN 61479 -1800 DORIC-1 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D 4250 BYRON BYRON 401 HYDROCARBON ANALYZER 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG

AF-LAB; 12° 5% CARBOWAX-600 GC; ECD

SAMPLING

AFF~ 71 JP-8(PET) VARIABLE FUEL 1981, APR 9-10

CLOCK TIMF DY HR.	ELAPSED IJME (MIN)	SIDE 1 070NE PPH 0-1796	SIDE 2 UZONE PPM D-1790	SIDE 1 NO FPM B-NOX-1	SIDE 2 NO FPH B-NOX-1	SIDE 1 NO2-UNC PPM B-NUX-1	SIDE 2 NO2-UNC FPH B-NOX-1	SIDE 1 NOX-UNC PPM B-NOX-1	SIDE 2 NOX-UNC PPM B-NOX-1	SIDE 1 THC FPMC	51 T F
2	******	27,77	<i>B</i> 1770	O NOX-1	P-140×-1	P-MOX-I	D-40X-1	B-MUX-1	8-401-1	BK6800-1	BK6
1 615	-165	0.000	0.000	0.007	0.007	0.065	0.005	0.010	0.010	1.04	1
1 835	-25	0.041 C		0.249		0.107		0.361		53.00	
1 845	-15		0.000		0.250		0.111		0.369		30
1 1005	65	0.065	~ ~ ~ ~ ~ ~	0.167		0.167		0.342		53.80	~ ~
1 1015	75		0.009		0.189		0.153		0.352		29
1 1105	125	0.066		0.069		0.2.1		0.287		50.70	
1 1115	135		0.018		0.114		0.207		0.331		29
1 1205	185	0.167	~~~~~	0.020		0,240		0.258		50.10	
1 1215	195		0.046	~~~~	0.049		0.258		0,309		28
1 1305	245	0.300		0.011		0.189		0,196		49.60	
1 1315	255		0.131		0.019		0.257		0.271		27
1 1405	305	0.421		0.009		0.12/		0.132		48.50	
1 1415	315		0.222		0.011		0,223		0.231		27.
1 1505	365	0.446		0.009		0.088		0.092		47.90	
1 1515	375		0.305		0,010		0.180		0.189		26.
1 1605	425	0.435	~	0.016		0.078		0.081		47,20	
1 1615	435		0.338		0.010		0.142		0.149		26.
2 835	1415	0.310	~	0.008		0.042	~	0.048		43,10	
2 845	1425		0.193		0.009		0.042	~~~~	0.048		25 (
2 1005	1505	0.285		0.009		0.047	~~~~	0.050			
2 1015	1515		0.192		0.009		0.048		0.051		
2 1105	1565	0.286		0.008		0.050		0.052	-~	44.70	
2 1115	1575		0.182		0.010		0.051		0.054		25.
2 1205	1625	0.283		0.009	~~	0.053		0.059		45.00	
2 1215	1635		0.188		0.009		0.054		0.059		25.
2 1305	1685	0.273		0.009		0.057	~	0.066		45.50	
2 1315	1695		0.195		0.009		0.054		0.059		25.
2 1405	1745	0.277		0.009		0.058		0.061		45.90	
2 1415	1755		0.200		0.009		0.059		0.061		25.
2 1505	1805	0.264		0.009		0.059		0.062		45.40	
2 1515	1815		0.203		0.009		0.059		0.060		25.

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AFF- 71 JP-8(FET) VARIABLE FUEL 1981, APR 9-10

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 NMHC PPMC BYRON	SIDE 2 NMHC PPMC BYRON	SIDE 1 T BEG C BORIC-1	SIDE 2 T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	SIDE 1 CONDENS 10E3/CC CNC-143	SI CON 10E CNC
1 615 1 835 1 845 1 1005	-165 -25 -15 65	0.18 43.80 41.80	23.70	10.5 16.8 	10.5	2,01	0.0 59.0 	1
1 1015 1 1105 1 1115 1 1205	75 125 135 185	43.00	23.80	25.0	22.3	2.16 3.32 3.36 3.06	25.5	2 2
1 1215 1 1305 1 1315	195 245 255	42.70	24.00 22.30	29.2	26.9 27.3	3.24 2.87 2.38	15.2	i 1
1 1405 1 1415 1 1505 1 1515	305 315 365 375	40.80	22.40	29.4	27.5 	2.35 2.24 1.57 1.41	8.4	
1 16051 16152 835	425 435 1415	40.50	21.70	25.5 13.2	24.2	0.89 0.78	6.0	100 100 100 100
2 845 2 1005 2 1015	1425 1505 1515	38.50	20.60	17.8	13.4	1.60	0,0	
2 1105 2 1115 2 1205 2 1215	1565 1575 1625 1635	38.90 37.70	21.20	18.6	21.4	1.79 2.46 2.05 2.09	0.9	
2 1305 2 1315 2 1405	1685 1695 1745	39.00 37.30	20.30	22.3 24.3	23.5	2.43 2.57 2.57	0.2	# T
2 1415 2 1505 2 1515	1755 1805 1815	37.40	18.80 18.50	24.0	23.6	2.24 1.75 1.38	0.0	

---- NO DATA TAKEN

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UV RAD HW/CM2 EFFLEY-2	SIDE 1 CONDENS 10E3/CC CNC-143	SIDE 2 CONDENS 10E3/CC CNC-143	SIBE 1 *PART>.3 PART/CC CLIMET	SIDE 2 #PART>.3 PART/CC CLIMET	SIDE 1 #PART>.5 FART/CC CLIMET	\$1DE 2 *PART>.5 PART/CC CLIMET
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3.06	20.0		176.		8.	0.
3.24		15.0		7.	143.	
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2,38		11.0	450.	113+	287.	
2.35	11.2	7.9	430+	300.		52.
2.24		/ • 9	457.		332.	
1,57	8 + 4	5.7	43/+	390.		160.
1.41	6.0	3./	455.		330.	
0.89	8+0	4.0		421.		236.
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	0.0		278.		74.	
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1.60	0.0		260.		77.	
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DY HR.	(MIN)	CLIMET	CLIMET	TSI-023	UM3/CC	PART/CC	PART/CC	UM2.
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1 615	-165	٥.	0.	1.	1.	50.	50,	
1 730	-90							
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1 1015	75		0.		16.		4.1E 04	
1 1105	125	ο.		83.		5.4E 04		2591
1 1115	135		0.		34.	CO 401 400 600 max 400	4.1E 04	~ · · ·
1 1205	185	0.		138.		3.6E 04		3441
1 1215	195		0.		52.		3.2E 04	
1 1305	245	2.		189.		3.0E 04		386.
1 1315	255		0.		77.		2.4E 04	
1 1405	305	42.		219.		2.2E 04		3821
1 1415	315		0.		99.	~~~~~	1.9E 04	
1 1505	365	81.		207.	~~~~~	1.6E 04	***	336(
1 1515	375		5.		116.		1.6E 04	
1 1605	425	84.		175.	the size tells and also any	1.1E 04		2759
1 1615	435		22.	-	119.		9916.	
2 805	1385		-	Ph (% no no oc oc		Diffe their main dean same gasp		
2 835	1415	1.		۶.		472.	and had that may may may	115
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2 1005	1305	2,		8.		1204.	770+	106
2 1015	1515		3,		10.	12771	1306.	
2 1105	1565	3,		10.	~~~~	3127.	13001	217
2 1115	1575		3,		9,		1387.	
2 1205	1625	4.		18.	***	3146.	130/+	328
2 1215	1635		5.	***	10.	3170+	1078.	348
2 1305	1685	4.		19.		2185.	1070+	323
2 1315	1695		7.		10.	2100+	1391.	
2 1405	1745	5.		14.		1470.	1371+	240
2 1415	1755		8.		11.	17/0+	1279.	290
2 1505	1805	5.		14.	***	603.	12/7-	198
2 1515	1815		8.	477	11.		921.	176
			~ •		4 % *		/ +	

---- NO DATA TAKEN

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SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
AER . N	AER.N	AER.S	AER • S	N-C5	N-C5
PART/CC	PART/CC	UM2/CC	UM2/CC	PPM	PPM
TSI-023	TSI-023	TS1-023	TSI-023	DMS-1	DMS-1
ΕΛ	50.	4.	4.		
50.	30+		· · · · · · · · · · · · · · · · · · ·		0.0010
				0.0015	
1.28 05		2415.			
1+20 00	1.6E 04		184.		
6.3E 04		2192.			
0+35 04	4.1E 04		759.		
5.4E 04		2597.			
3+46 04	4.1E 04		1171.		
3.6E 04		3442.			
3+01: 04	3,2E 04		1582.		
3.0E 04	J. Z	3864.			
3.00 04	2.4E 04		1965.		
2.2E 04	2 · 7 - V ·	3827.			
2121 07	1.9E 04		2123.		
1.6E 04		3360.			
1+00 07	1.6E 04		2170.		0.0008
1.1E 04		2759.		0.0016	
	9916.		2006.		
					0.0009
				0.0017	
472.		115.	160.		
	778.		100+		
1204.		106.	117.		
	1306.	217.	11/+		
3127.	4707	217+	138.		· · · · · · · · · · · · · · · · · · ·
and the same of the same	1387.		130+		
3146.	4070	328.	164.		
	1078.	323.	1044		
2185.		323+	172.		
4430	1391.	240.	1/4+		
1470.		240.	170.		0.0011
مين مين مين مين واد يو را	1279.	198.	1,0.	0.0017	
603.	921.	170+	154.		
	721.		A W 7 7		

AFF- 71 JP-8(PET) VARIABLE FUEL 1981, APR 9-10

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 N-C10 FPM VAR 3700	SIDE 2 N-C10 PPM VAR 3700	SIDE 1 N-C11 PPM VAR 3700	SIDE 2 N-C11 PPM VAR 3700	SIDE 1 N-C12 PPM VAR 3700	SIDE 2 N-C12 PPM VAR 3700	SIDI N-C PPI VAR
1 830 1 1015 1 1105 1 1215 1 1405 1 1515 1 1605	-30 75 125 195 305 375 425	0.0560 0.0531 0.0529 0.0537	0.0271 0.0256 0.0253	0.1988 0.1930 0.1882 0.1926	0.0987 0.0964 	0.2123 0.2131 0.2143 0.2156	0.1205 0.1132 	0.15
2 805 2 835 2 1015 2 1205 2 1315 2 1405	1385 1415 1515 1625 1695 1745	0.0523 0.0507 0.0510	0.0250 0.0251 0.0241	0.1816 0.1794 0.1760	0.0881 0.0898 0.0895	0.1950 0.1889 	0.1104 0.1108 0.0992	0.15

----- NO DATA TAKEN

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DE 1 C12 PM	SIDE 2 N-C12 PPM	SIDE 1 N-C13 FPM	SIDE 2 N-C13 PPM	SIDE 1 N-C14 PPM	SIDE 2 N-C14 PPM
3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700
2123	ander hand spike spike spike	0,1669		0.078	April 1884 1884 1884 1884
	0.1205		0.1046		0.063
2131		0.1587		0.085	
	0.1132		0.0932		0.052
2143	*** *** *** *** ***	0.1783		0.104	
	0.1110		0.0962		0.058
2156		0.1684		0.089	
	0.1104		0.0854		0.057
1950		0.1578		0.066	
	0.1108		0.0841		0.045
1889		0.1456		0.077	
	0.0992		0.0788		0.042
1845		0.1337		0.063	

AFF- 71 JF-8(PET) VARIABLE FUEL 1981, AFR 9-10

CLOC TIM DY HR	E TIME	SIDE 1 124TMEBZ PPM VAR 3700	SJDE 2 124TMEBZ PPM VAR 3700	SIDE 1 CO PPM BYRON	SIDE 1 CO PPM BK6800-1	SIDE 2 CO PPM BYRON	SIDE 2 CO PFM BK6800-1	SID PA PP ECD
1 61		0.0031	0.0031	0.30	0.94	0.39	0.94	٥.
1 82								
1 83		0.0184						
1 83				0.35	0.99			٥.
1 84 1 100					4 07	0.36	0.95	
1 100			0.0092	0.26	1.03	0.24	1.02	0.
1 110		0.0167	0.0092	0.23	1.02	V+24	1.02	
1 111		V+V10/	***************************************	V+23	1.02	0.36	1.02	
1 120								
1 120			make make plants that been state	0.27	1.06			٥.
1 121			0.0081			0.38	1.01	
1 130				0.48	1.10			0.
1 131						0.49	1.08	
1 140	5 305	0.0159		0.49	1.15			0.
1 141	5 315				*** *** *** *** ***	0.42	1.08	
1 150	5 365			0.50	1.18			0.
1 151			0.0075			0.39	1.12	
1 160		0.0145	dies des pres de arts anti-	0.42	1,19			0.
1 161			after train prior train saids stells				010 cm 100 cm 100 cm	
1 161	5 435					0.42	1.10	
2 80		-	0.0089		ride outs after mass trees ten	NOTE CO. 1000 1000 1000		
2 83								
2 83		0.0162		0.41	1.15			0.
2 84						0.50	1.16	~ .~ ~
2 100				0.49				٥.
2 101			0.0082		mid 1200 mar 1000 min 1000	0.50		
2 110		tree dotte pale pale ditte.	10th state term 50th cusp 40th	1.12	1.21			٥.
2 111			which draws array both dailyn woldt			0.55	1.16	
2 120			100 500 500 500 500 500					
2 120		0.0151		0.56	1.24		4 40	٥,
2 121			Vi. up ., as as as	A A D	4 4 79	0.31	1.19	
2 130 2 131			0.0070	0.48	1.17	0.74	1.22	0.
2 131		0.0146	0.0070	0.57	1.26	0.74	1 + & &	0.
2 140		V+V140		0.07	1+20	0.71	1.24	
2 150			*************			0.71	1.24	
2 150			*** *** *** *** ***	2.31	1.30			0.
2 151								
2 151								

---- NO BATA TAKEN

SIDE 2 CO	SIDE 2 rj	SIDE 1 PAN	SIDE 2 PAN	SIDE 1 HCHO	SIDE 2 HCHO
FFM	PPM	PPM	PPM	PPM	PPM
BYRON	BK6800-1	ECD-3	ECD-3	CA	CA
0.36	0.94	0.000	0.000		
				0.023	0.012
		0.000			
0.36	0.95		0.000		
		0.001			
0.24	1.02		0.001		
			,		
0.36	1.02		0.003		
				0.066	0.016
		0.015			
0.38	1.01		0.008		
		0.029			
0.49	1.08		0.018		
		0.042			
0.42	1.08		0.025		
		0.055			
0.39	1.12	~~~~~	0.034		
		0.068			
				0.054	0.038
0.42	1.10		0.045		

			~ ~ ~ ~ ~	0.101	0.068
		0.032	~		
0.50	1.16		0.029	.	
		0.032			
0.50			0.034		
		0.037	when approximate after death after		
0.55	1.16		0.036		
				0.082	0.058
		0.038			
0.31	1.19		0.039		
		0.041		*	
0.74	1.22		0.041		
		0.040			
0.71	1.24		0.039		
					0.053
		0.042	spin when came white diffe days		-
				0.084	
0.58	1.30		0.042		

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AFF- 71 JP-8(PET) VARIABLE FUEL 1981, APR 9-10

CLOCK	FLAPSEN	SIDE 1 PART.024	SIDE 2 PART.024	SIDE 1 PART.042	SIDE 2 PART.042	SIDE 1 PART.075	SIDE 2 PART.075	SIDE PART.1
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/C
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-02
								·
1 615	-165	0.	0.	0.	0.	89.	89.	-48.
1 835	-25	3.1E 04		2.6E 04		4.7E 04		1.1E
1 845	-15		1336.		1.1E 04		2620.	
1 1005	65	501.		7656.		3.4E 04		1.9E
1 1015	75		167.		2.1E 04		1.4E 04	
1 1105	125	9185.		-2175.		1.9E 04		2.4E
1 1115	135		5678.		9831.		1.5E 04	
1 1205	185	-4008.		2784.		4174.	***************************************	2.5E
1 1215	195		334.		2871.		1.2E 04	
1 1305	245	2171.		1044.		355.		1.4E
1 1315	255		668.	~~~~~~	696.	~~~~	2797.	
1 1405	305	1169,		-87.		755.		7399.
1 1415	315		0.		1740.		89.	
1 1505	365	167.		1044.		-444,		4218.
1 1515	375		2171.		609.		-44.	
1 1605	425	0.		0.	~~~~~	266.		2362.
1 1615	435		-501.		783.		311.	
2 835	1415	167.		87.		-44.	70° 140 100 atm 140 50°	٥.
2 845	1425		334.		87,		٥.	
2 1005	1505	668.		87.		178.		48,
.2 1015	1515		835.		174.		44.	
2 1105	1565	0.		261.		1066.		1446.
2 1115	1575		334.		87.	46 vis 44 c 4 ann vos	355.	
2 1205	1625	501.		261.	~	89.		1374.
2 1215	1635		0.		Q.		178.	
2 1305	1685	334.		261.		-133.		675.
2 1315	1695		334.		174.		0.	
2 1405	1745	334.		87.		0.		265.
2 1415	1755		668+		-261.		222.	
2 1505	1805	-334.		348.		-222.		289.
2 1515	1815		668.		-435.		133.	

---- NO DATA TAKEN

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•	SIDE 1 PART.075 PART/CC TSI-023	SIDE 2 PART.075 PART/CC TSI-023	SIDE 1 PART.133 PART/CC TSI-023	SIDE 2 PART.133 PART/CC TSI-023	SIDE 1 PART.237 PART/CC TSI-027	SIDE 2 PART.237 PART/CC TSI-023
,	89. 4.7E 04 3.4E 04 1.9E 04	89. 2620. 1.4E 04	-48. 1.1E 04 1.9E 04 2.4E 04	-48. 819. 5085.	12. 3604. 2152. 	111.
	4174.	1.5E 04 1.2E 04 	2.5E 04 1.4E 04	9809. 1.4E 04 1.5E 04	7712. 1.1E 04	1119. 2386.
	755. - 444. 266.	89.	7399. 4218. 2362.	1.0E 04	1.0E 04 8561. 	5719.
	-44. 178.	311.	0.	2603. 24.	148.	5449. 184.
	1066.	44. 355. 178.	1446.	237. 506.	271. 787.	148. 172. 283.
	-133. 0. 	222.	675. 265. 289.	386.	873. 603. 357.	394.
		133.		120.		320.

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AFF- 71 JP-8(PET) VARIABLE FUEL 1981, AFR 9-10

		SIDE 1	SIDE 2	SIDE 1	SIDE 2
CLOCK	ELAPSED	PART.422	PART,422	PART,750	PART.750
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023
1 615	-165	-7.	-7.	4.	4.
1 835	-25	180.		32.	
1 845	-15		7.		4.
1 1005	65	100.		35₊	
1 1015	75		33.		7.
1 1105	125	307.		53.	
1 1115	135		80.		32.
1 1205	185	780.		102.	
1 1215	195		193.		35.
1 1305	245	1447.	FFE 100 BO NA 20 -00	172.	
1 1315	255		427.		53.
1 1405	305	1914.		281.	
1 1415	315		634.		95.
1 1505	345	1954.		278.	
1 1515	375		967.	And the Res (400 And 400)	130.
1 1605	425	1748.		256.	
1 1615	435		1121.		151.
2 835	1415	93.		21.	
2 845	1425		113.		35.
2 1005	1505	67.		21.	
2 1015	1515		80.		25.
2 1105	1565	67.		18.	
2 1115	1575		80.		21.
2 1205	1625	107.		28.	
2 1215	1635		93.	*** *** *** *** ***	18.
2 1305	1685	147.		28.	
2 1315	1695		87.		18.
2 1405	1745	167.		14.	
2 1415	1755		107.		18.
2 1505	1805	140.		25.	
2 1515	1815		93.		21.

---- NO DATA TAKEN

NOTES

- RETENTION TIMES ARE RESPECTIVELY: .98' 1.01' .99' RETENTION TIMES ARE RESPECTIVELY: .97' 1.03' .99' À
- B
- PROBABLE INTERFERENCE BY FUEL COMPONENTS ON OZONE MONITOR.

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AFF- 72
JP8-PET, 4 DAY STATIC
1981 APRIL 14-17
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DAY 1 (APRIL 14) 0600: START FILL

0600: START FILL. WET: 6.8 PSIG; DRY: 0.0 PSIG; DEW PT: 9.5C; RH: 60%

0730: INJECTED 5.5 ML NO2 0732: INJECTED 18.0 ML NO 0734: INJECTED 400 ML FREON

0740: INJECTED 1400 MICROLITERS OF JP-8(PET), 2 MINUTES OF N2 ONLY, THEN HEAT FOR 30 MINUTES AT 250C

0900: UNCOVER BAG (T=0) 1610: END SAMPLING DAY 1

DAY 2 (APRIL 15)

0800: BAG HAS "75% OF ITS VOLUME LEFT.

1610: END SAMPLING DAY 2

DAY 3 (APRIL 16)

0745: BAG HAS "55-60% OF ITS VOLUME LEFT

0829-0839: INJECTED 18.0 ML NO AT 200ML N2 /MIN WHILE FILLING WITH AIR 0839-0849: INJECTED 5.5 ML NO2 AT 200 ML N2/MIN WHILE FILLING WITH AIR

1610: END SAMPLING FOR DAY 3

DILUTION FACTOR DUE TO NOX INJECTION = 0.829

DAY 4 (APRIL 17)

0800: FOG AND LOW CLOUDS

0945: FOG IS LIFTING; SUN BEGINNING TO COME OUT

1510: END OF RUN!!

RESULTS	DAY 1	DAY 2	DAY 3	DAY 4
AVG.T(DEG.C)	28(+-3)	25(+-7)	28(+-4)	22(+-5)
AVG.UV(MW/CM2)	2.5(+-1.0)	2.3(+-1.0)	2.2(+-0.9)	1.8(+-0.8)

T=0 AT 900 PST

ID	INST.	AVERAGE VALUE	S.DEV	UNITS
τ	DORIC-1	25.0	6.0	DEG C
1				
UV RAB	EPPLEY-2	2.15	0.90	MW/CM2
ID	INST.	INITIAL CONC.	UNITS	
110	5 NOV 4		FIELD	
NO	B-NOX-1	0.297	PPM	
NG2-UNC	B-NOX-1	0.130	PPM	
THC	BK6800-1	32.70	PPMC	

AFF- 72 JP8-PET, 4 DAY STATIC 1981 APRIL 14-17

INSTRUMENTS (JSED	SAMPLING
		RATE
ID LABEL	DESCRIPTION	(ML/MIN)
1790 D-1790	DASIBI 1790 DZONE MONITOR	
4600 B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850 BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
1800 DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4250 BYRON	BYRON 401 HYDROCARBON ANALYZER	
880 EG&G	EG&G DEW POINT HYGROMETER	
4025 AF DMS	AF-LAB; DIMETHYLSULFOLANE GC; FID	
4300 TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030)
4350 CLIMET	CLIMET 208 OFTICAL PART, CIR; SN: 76-148	
4200 CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN14	3
2650 VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FI	U
2200 DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2100 PN-1	RM-121 POROPAK-N GC; FID	
2920 10'C-600	RM-121: 10' 10% CARBOWAX-600 GC; FID	
3000 CA	CHROMOTROPIC ACID HCHO ANALYSIS	
4131 EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	
4000 ECD-3	AF-LAR; 12° 5% CARBOWAX-600 GC; ECD	

341

AFF- 72 JP8-PET, 4 DAY STATIC 1981 AFRIL 14-17

CLOCK	ELAPSED	OZONE	NO	NO2-UNC	NOX-UNC	THC	NMHC	1
TIME	TIME	PPM	PPM	PPM	PPM	PPMC	PPMC	DE
DY HR.	(MIN)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	BK6800-1	BYRON	DORI
1 715	-105	0.000	0.009	0.001	0.009	1.59	0.20	14
1 835	-25	0.027 A	0.297	0.130	0.432	32.70	32.00	17
1 1005	65	0.040	0.222	0.180	0.418	33.30	32.70	22
1 1105	125	0.050	0.132	0.251	0.392	32,90	34.60	25
1 1205	185	0.097	0.043	0.318	0.366	32.70	31.60	29
1 1305	245	0.207	0.012	0.298	0.300	32.20	32.00	30
1 1405	305	0.345	0.010	0.240	0.242	31.30	31.70	28
1 1505	365	0.456	0.010	0.170	0.172	30.80	30.80	29
1 1605	425	0.495	0.010	0.120	0.123	29.90	30.60	26
2 815	1395	0.352	0.010	0.052	0.060		29.30	13
2 905	1445	0.344	0.010	0.053	0.061		28.20	16
2 1005	1505	0.333	0.010	0.062	0.069	28.70	30.20	20
2 1105	1565	0.334	0.010	0.062	0.069	28.60	31.80	25
2 1205	1625	0.342	0.010	0.067	0.070	29.00	30.60	28
2 1305	1685	0.354	0.010	0.063	0.070	29.00	29.20	31
2 1405	1745	0.369	0.010	0.061	0.067	29.00	29.80	32
2 1505	1805	0.376	0.012	0.058	0.061	28.90	29.70	31
2 1605	1865	0.369	0.010	0.052	0.060	28.40	29.00	27
								·
3 800	2820	0.273	0.012	0.039	0.047	30.40	26.80	16
3 905	2885	0.057	0.061	0.377	0.439	23.90	23.20	19
3 1005	2945	0.139	0.023	0.389	0.403	23.00	23.10	24
3 1105	3005	0.279	0.010	0.350	0.353	22.40	23.90	29
3 1205	3065	0.474	0.010	0.289	0.290	21.80	22.30	30
3 1305	3125	0.666	0.010	0.210	0.213	20.80	23.00	32
3 1405	3185	0.766	0.010	0.156	0.160	20.00	21.50	32
3 1505	3245	0.774	0.010	0.130	0.133	19.80	22.70	30
3 1605	3305	0.750	0.010	0.110	0.117	19.70	21.90	28
4 805	4265	0.573	0.010	0.069	0.071	17.90	20.60	13
4 905	4325	0.563	0.009	0.070	0.073	18.00	19.30	15
4 1005	4385	0.544	0.010	0.072	0.078	18.40	20.00	19
4 1105	4445	0.528	0.009	0.080	0.082	18.70	20.50	24
4 1205	4505	0.515	0.008	0.082	0.087	18.70	21.00	24
4 1305	4565	0.501	0.008	0.089	0.091	19.00	21.40	27
4 1405	4605	0.494	0.008	0.088	0.090	19.10	21.70	28
4 1505	4685	0.485	0.008	0.085	0.088	19.00	20.60	25

----- NO DATA TAKEN

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UNC M X-1	THC PPMC BK6800-1	NMHC PPMC Byron	T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	CONDENS 10E3/CC CNC-143	#PARTS.3 PART/CC CLIMET	*PART>.5 PART/CC CLIMET
009	1.59	0.20	14.1		0.1	٥.	٥.
432	32.70	32.00	17.5	AND AND AND THE THE AND	45.0	3.	0.
418	33.30	32.70	22.6	1.98	25.0	2.	0.
392	32.90	34.60	25.8	3.36	18.0	5.	0.
366	32.70	31.60	29.6	3 • 43	14.2	19.	0.
300	32.20	32.00	30.8	3.36	10.0	238.	20.
242	31.30	31.70	28.8	2.38	7.5	408.	179,
172	30.80	30.80	29.2	1.71	5.8	445.	300.
123	29.90	30.60	26.6	1.00	4.6	455.	336.
060	dige what gapt files them take	29.30	13.3	0.60	0.0	361.	114.
061		28.20	16.3	2.05	0.0	344.	110.
069	28.70	30.20	20.8	2.13	0.1	401.	126.
069	28.60	31.80	25.5	3.32	0.1	287.	187.
070	29.00	30.60	28.1	3.47	0.1	256.	232.
070	29.00	29.20	31.7	2.98	0.1	258.	216.
067	29.00	29.80	32.4	2.79	0.1	285,	195.
061	28.90	29.70	31.1	1.68	0.0	299.	176.
060	28.40	29.00	27.8	0.93	0.0	313.	153.
047	30.40	26.80	16.2	1.12	0.0	15.	12.
439	23.90	23.20	19.7	2.31	0.1	27.	9.
403	23.00	23.10	24.0	1.98	0.1	289.	65.
353	22,40	23.00	29.2	3.28	0.0	351.	137.
290	21.80	22.30	30.8	3.39	0.1	366.	319.
213	20.80	23,00	32.2	2.65	0.1	267.	274.
160	20.00	21.50	32.4	2.35	0.1	314.	234.
133	19.80	22.70	30.5	1.46	0.1	359.	225.
117	19.70	21.90	28.8	0.97	0.1	374.	211.
071	17.90	20.60	13.9	0.49	0.0	30.	29.
073	18.00	19.30	15.1	0.93	0.0	24.	23.
078	18.40	20.00	19.9	2,13	0.0	102.	20.
082	18.70	20.50	24.2	2.84	0.0	233.	44.
087	18.70	21.00	24.5	2,20	0.1	269.	69.
091	19.00	21.40	27.2	2.46	0.1	281.	110.
090	19.10	21.70	28.0	1.94	0.1	266.	155.
880	19.00	20.60	25.9	1.41	0.0	239.	177.
			+ .		3 7 0		·· +

AFF- 72 JP8-FET, 4 DAY STATIC 1981 APRIL 14-17

CLOCK TIME	TIME	#PART>1 PART/CC	AER.V UM3/CC	AER.N PART/CC	AER.S Uh2/00	N-05 PPM	N-C10 PPM	N-1 Pi
DY HR.	(MIM)	CLIMET	TSI~023	181-023	TSI-023	DMS-1	VAR 3700	VAR
1 715	105		_					****
1 835	-105	¢.	, <u>0</u> ,	494.	2,	***	0.0036	0 . (
1 1005	-25	0.	17.	7-8E 04	805.	0.0008	0.0419	0.1
1 1105	45	٥.	22,	4.8E 04	1058.		0.0410	0.1
	125	٥.	3€.	3.7E 04	1434.	THE RES AND THE PERSON NAMED IN	0.0402	0.1
1 1205 1 1305	185	٥.	62.	2.8E 04	1896.		0.0371	0.1
	245	٥,	87.	2.35 04	2249.		0.0380	0.1
1 1405	305	6.	115.	1.7E 04	2403.	**************		
1 1415	315						0.0369	0,1
1 1505	365	56.	125.	1.3E 04	2301.	** ** ** ** **		
1 1510	370				474 FFR AND THE PER ASS	-	0.0379	0.1
1 1605	425	93.	117.	1.1E 04	2024.	** ** *** *** ***		
1 1610	430		~~~~		where we've write major service major	0.0011	0.0370	0.1
2 015	1700							
2 815 2 905	1395	4.	14.	1.2E 04	365.	0.0010		
2 905 2 1005	1445	4.	13.	1.1E 04	317.		0,0511	0.1
2 1105	1505	6.	13.	1.3E 04	324.		0.0371	0.1
	1565	9.	15.	1.6E 04	389.		0.0360	0.1
2 1205	1625	18.	11.	9957.	343.		0.0349	0.1
2 1305	1685	19.	14.	9995.	380.		0.0353	0.1
2 1405	1745	20+	13.	8159.	326.	~	0.0343	0.1
2 1505	1805	25.	13.	8163.	387.		0.0342	0.1
2 1605	1865	20.	18.	1.7E 04	554.	0.0013	0.0251	0.0
7 000	0000	_						
3 800	2820	٥.	1.	875.	32.	0.0013	0.0347	0.1
3 900	2880	-			~	0.0011	0.0278	0.0
3 905	2885	٥.	5.	1235.	123.			
3 1005	2945	2.	10.	665.	151.		0.0274	0.0
3 1105	3005	9.	8.	803.	111.		0.0272	0.0
3 1205	3065	48.	2.	208.	38.		0.0266	0.0
3 1305	3125	50.	3 ↓	567.	62.		0.0252	0.0
3 1405	3185	84.	11.	1592.	190.		0.0273	0.0
3 1505	3245	87.	12.	953.	192.		0.0243	0.0
3 1605	3305	81.	9.	800.	148.	0.0012	0.0276	0.0
4 605								4 4
4 805	4265	1 .	1.	709.	20.	0.0014	-	
4 905	4325	1.	2.	764.	54.		0,0295	0.0
4 1005	4385	2.	6+	1116.	109.		0.0246	0.0
4 1105	4445	3.	8.	695.	126.		0.0270	0.01
4 1205	4505	4.	8.	386.	120.		0.0236	0.0
4 1305	4565	6.	6,	472.	95.		0.0232	0.0
4 1405	4625	8.	6.	672.	87.		0.0248	0.1(
4 1505	4685	12.	4.	303.	62.	0.0013	0.0252	0.0
								- + * /

----- NO DATA TAKEN

N-C5 FPM DMS-1	N-C10 PPM VAR 3700	N-C11 FPM VAR 3700	N-C12 RAW DATA VAR 3700	N-C13 RAW BATA VAR 3700	N-C14 PPM VAR 3700	124TMEBZ PPM VAR 3700
0.0008	0.0036 0.0419	0.0091 0.1408	J.0224 0.1282	0.0491 0.1192	0.037	0.0078
	0.0410	0.1428	0.1545	0.1392	0.078 0.123	0.0145
** ** ** ** ***	0.0402	0.1408	0.1480	0.1275	0.123	0.0145
	0.0371	0.1319	0.1255	0.1138	0.072	0.0123
	0.0380	0.1345	0,1290	0.1237	0.072	0.0098
	** ** ** ** **			~~~~	01001	0.0101
	0.0369	0.1256	0.1226	0.1048	0.066	0.0095
	0.0379	0.1324	0.1242	0.1127	0.078	0.0100
0.0011	0.0370	0.1298	0.1226	0.1080	0.066	0.0087
0.0010			** *** *** *** ***	this days from the come were	170 No. 101 day 110 and	
~ ~ ~ ~ ~ ~ ~	0.0511	0.1693	0.1464	0.1107	0.098	0.0375 B
~~~~~	0.0371	0.1240	0.1427	0.1027	0.069	0.0375 5
	0.0360	0.1225	0.1164	0.1061	0.064	0.0093
	0.0349	0.1230	0.1110	0.0996	0.057	0.0085
	0.0353	0.1228	0.1155	0.1012	0.067	0.0096
	0.0343	0.1161				0.0075
	0.0342	0,1167	0.1104	0.0953	0.062	0.0086
0.0013	0.0251	0.0894	0.0888	0.0799	0.055	0.0064
0.0013	0.0347	0.1131	0.1062	0.0930	0.053	0.0093
0.0011	0.0278	0.0932	0.0838	0.0483	0.036	0.0076
****	0.0274	0.0914	0.0931	0.0702	0.038	0.0074
	0.0272	0.0910	0.0818	0.0707	0.040	0.0067
	0.0266	0.0910	0.0864	0.0756	0.049	0.0066
	0.0252	0.0859	0.0789	0.0664	0.044	0.0055
NOT THE RE THE REAL PROPERTY.	0.0273	0.0914	0.0866	0.0659	0.057	0.0184 B
	0.0243	0.0818	0.0752	0.0618	0.039	0.0048
0.0012	0.0276	0.0881	0.0876	0.0651	0.522	0.0168 B
0.0014				~~~~	***	
	0.0295	0.0849	0.0802	0.0559	0.037	0.0332 B
	0.0246	0.0778	0.1070	0.0586	0,033	0.0064
	0.0270	0.0876	0.0839	0.0659	0.062	0.0187 B
~~~~~	0.0236	0.0763	0.0683	0.0548	0.029	0.0050
***	0.0232	0.0765	0.0688	0.0558	0.031	0.0045
A AA47	0.0248	0.1030	0.0749	0.0544	0.040	0.0161 B
0.0013	0.0252	0.0793	0.0757	0.0813	0.040	0.0155 B

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AFF- 72 JP8-PET, 4 DAY STATIC 1981 APRIL 14-17

CLOCK TIME	TIME	FREON 12 RAW DATA	CO PPM	CO PPM	PAN PPM	HCHO PPM	DEW FT DEG C	FAR PAR
DY HR.	(MIN)	DMS-1	BK6800-1	BYRON	ECD-3	CA	EG&G	TSI
1 715	-105	~ ~ ~ ~ ~ ~	1.69	1.02	0.000		9.5	3
1 830	-30				~	0.000		
1 835	-25	338.9	1.68	1.07	0.000			3.
1 1005	65		1.74	0.88	0.001			38.
1 1105	125		1.75		0.001			1.
1 1200	180			~		0.007		
1 1205	185		2.00	1.27	0.003			-3:
1 1305	245	*** *** == ***	1.79	1.09	0.007	* * * * *		3;
1 1405	305		1.84		0.014			18
1 1505	365	***************************************	1.86	1.10	0.020			10
1 1600	420	100 100 001 100 000 000				0.054		
1 1605	425	off the file also to the	1.88	1.12	0.028			6.
1 1610	430	364.9		Arms about every pages again again		***************************************		 -
2 810	1390					0.056		*****
2 815	1395	364.5		1.21	0.020			230
2 905	1445	*** *** *** *** ***	1,10 ESD 2014 Bigs Sign Aug.	1.14	0.023			467
2 1005	1505		1.96	1.15	0.026			684
2 1105	1565		1,99	1.32	0.025			751
2 1200	1620					0.054		
2 1205	1625		2.02	1.38	0.024			100
2 1305	1685		2.00	1.38	0.022			367
2 1405	1745	401 We can take now take	2.15	1.50	0.019			25(
2 1505	1805		2.10	1.54	0.015			-15(
2 1600	1860	***				0.065		
2 1605	1865	338.9	2.06	1.28	0.015			334
3 753	2813					0.071		
3 800	2820	339.5	2.17	1.32	0.009			16
3 900	2880	281.6				0.039		
3 905	2885		2.32	1.72	0.009			33
3 1005	2945		2:34	1.64	0.010			-16
3 1105	3005		2.57	1.81	0.016			33
3 1200	3060				A. 1 Tel 1/2 met gan ma	0.076	*******	
3 1205	3965		2.43	1.82	0.021			
3 1305	3125		2.46	1.58	0.027	***************************************		
3 1405	3185		2.49	1.97	0.033			50
3 1505	3245	***************************************	2.45	1.98	0.031		~	
3 1600	3300				100 Mm com our garge com	0.121		
3 1605	3305	291.8	2.54	2.15	0.034		10° 400 100 and unit com-	16
4 800	4260			****	from order some japp sygen som	0.145		
4 805	4265	283.6	2.56	1.92	0.019			33
4 905	4325		2.57	2.20	0.019			16
4 1005	4385	~~~~~~	2.58	1.95	0.020			50
4 1105	4445		2.59	1.88	0.021			
4 1200	4500					0.141		
4 1205	4505		2.61	2.00	0.020			
4 1305	4565		2.59	2.17	0.022			
4 1405	4625		2.66	2.20	0.019			33
4 1500	4680					0.134		~~~
4 1505	- 685	281.1	2.70	2.24	0.018	Fig. 300 and and any laye		

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нсно	DEW PT	PART.024	PART.042	PART.075	PART.133	PART.237
PPM	DEG C	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
CA	EG&G	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
						
	9.5	334+	87.	133.	-72.	12.
0.000						
		3.6E 04	2.0E 04	1.8_ 04	3615.	406.
		3841.	1.0E 04	2.6E 04	7158.	529.
		167.	957.	2.0E 04	1.4E 04	1144.
0.007						
	~	-334.	-696.	5905.	1.9E 04	3161.
	plat the same open from the	334.	87.	1643.	1.5E 04	5892.
		1837.	-2610.	888.	8170.	7540.
		167.	696.	222.	3880.	7072.
0.054					0446	
		668.	609.	844.	2145.	5756.
0.056						
	peril ware born from 18th com	2338.	3306.	3152.	2169.	492.
	,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4676.	1392.	2131.	1856.	480.
and 400 cm ton and 100		6847.	1305.	2486.	1807.	492.
		7515.	2001.	2886.	2434.	553.
0.054						
		1002.	3480.	2309.	2555.	541.
		3674.	783.	2176.	2579.	676.
		2505.	1044.	1820.	2121.	578.
		-1503.	2523.	3818.	2675.	566.
0.045						
		3340.	2175.	6349.	4073.	689.
0.071			***			
	~	167.	87.	400.	169.	49.
0.039						
		334.	-87.	0.	554.	394.
and all the are part do.	~~	-167.	174.	133.	24.	394.
		334.	174.	-44.	24.	221.
0.076						
		0.	87.	-44.	24.	98.
		0. 501.	87+	133.	193.	111.
		0.	-87. 87.	133. 89.	410. 145.	541. 492.
0.121		V+	0/•	07+	140+	472+
V•121		167.	0.	44.	96.	381.
		10/ (•	7.7	, 0 •	5011
0.145						
		334,	87.	178.	72.	25.
		167.	-87.	178.	386.	111.
		501.	-87.	133.	241.	271.
~=====		0.	87.	0.	217.	307.
0.141	~ ~ ~ ~ ~ ~	and the raw may set upo				
		٥.	-87.	44.	48.	283.
		0.	87.	44.	48.	221.
		334.	٥.	44.	48.	185.
0.134				_		
		0.	87,	٥٠	24.	135.
				Γ		

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AFF- 72 JP8-PET, 4 DAY STATIC 1981 AFRIL 14-17

CLOCK TIME DY HR.	ELAFSED TIME (MIN)	PART.422 PART/CC TSI-023	PART.750 PART/CC TSI-023
1 715 1 835 1 1005 1 1105 1 1205 1 1305 1 1405 1 1505 1 1605	-105 -25 -65 125 185 245 305 365 425	0. 20. 27. 100. 200. 567. 827. 1067. 1127.	0. 18. 11. 32. 25. 88. 133.
2 815 2 905 2 1005 2 1105 2 1205 2 1305 2 1405 2 1505 2 1605	1395 1445 1505 1565 1625 1685 1745 1805	87. 80. 87. 100. 67. 100. 80. 73.	18. 14. 14. 4. 7. 11. 11.
3 800 3 905 3 1005 3 1105 3 1205 3 1305 3 1405 3 1505 3 1605	2820 2885 2945 3005 3065 3125 3185 3245 3305	0. 40. 93. 80. 47. 40. 80. 127.	4. 0. 14. 14. -4. 4. 14. 14.
4 805 4 905 4 1005 4 1105 4 1205 4 1305 4 1405 4 1505	4265 4325 4385 4445 4505 4565 4625 4685	13. 7. 47. 73. 87. 60. 47. 53.	0. 4. 11. 11. 11. 14.

-- NO DATA TAKEN

NOTES

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- A PROBABLE INTERFERENCE BY FUEL ON OZONE MONITOR.
- B RT TIMES OF 124TMEBZ AND N-C10 DO NOT CORRESPOND AS IN
- R CALIBRATION--SUSPECT INTERFERING PEAK W/124TMEBZ.

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AFF- 73
JF8-SHALE, 4 DAY STATIC
1981 APRIL 21
DAY 1
        (APRIL 21)
  0600: START FILL. WET: 7.0 PSIG. DRY: 0.0 PSIG. DEW POINT: 8.5C. RH: 49%
  0728: INJECTED 5.5 ML NO2
  0730: INJECTED 18.0 ML NO
  0732: INJECTED 400 MICROLITERS FREON 12
  0738: INJECTED 1100 MICROLITERS JP-8(SHALE). 2 MINUTES OF N2 ONLY,
        THEN HEAT AT 250 C FOR 30 MIN.
  0900: UNCOVER BAG (T=0)
  1610: SAMPLING ENDED FOR DAY 1
DAY 2
        (APRIL 22)
  0745: BAG HAS "75 TO 80% OF ITS AIR REMAINING
  1545: PLACED TEFLON COVER OVER BAG BECAUSE OF WINDS
  1610: SAMPLING ENDED FOR DAY 2
DAY 3
        (APRIL 23)
  0745: BAG HAS "55 TO 60% OF ITS AIR LEFT
  0818: INJECTED 18.0 ML NO AT 200ML/MIN N2 WHILE FILLING WITH AIR.
  0828: INJECTED 5.5 ML NO2 AT 200ML/MIN N2 WHILE FILLING WITH AIR.
        DILUTION FACTOR DUE TO NOX INJECTION = 0.76
  0955: REMOVED TEFLON COVER
  1610: SAMPLING ENDED FOR DAY 3
        (APRIL 24)
DAY 4
  0745: LIGHT MIST IS FALLING. LOW CLOUDS AND FOG.
  0930: FOG AND DRIZZLE HAVE STOPPED, STILL QUITE CLOUDY.
  1200: CLOUDS HAVE CLEARED; SUNNY AND HAZY.
RESULTS
                      DAY 1
                                      DAY 2
                                                     DAY 3
                      29(+-2)
                                      32(+-4)
                                                     28(+~6)
                                                                     21(+-5)
AVG.T(DEG.C)
AVG.UV(MW/CM2)
                      2.7(+-0.9)
                                      2.6(+~0.7)
                                                     2.4(+-1.1)
                                                                     1.7(+-1.1)
T=0 AT 900 PST
          21 USED
BAG NO.
  ID
           INST.
                  AVERAGE
                            S.DEV UNITS
                   VALUE
                                      DEG C
         DORIC-1
                   26.5
                            6.1
UV RAD
         EPPLEY-2
                   2.36
                           1.04
                                     MW/CM2
  ID
                  INITIAL
                            UNITS
           INST.
                   CONC.
         B-NOX-1
                   0.330
                             PPM
         B-NOX-1
                   0.149
MO2-UNC
                             PPM
THC
         BK6800-1 29.40
                             PPMC
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AFF- 73 JF8-SHALE, 4 DAY STATIC 1981 AFRIL 21

INST	TRUMENTS L	JSED	SAMPLING RATE
ID	LABEL	DESCRIPTION	(ML/HIN)
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN3C0038-2	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4250	BYRON	BYRON 401 HYDROCARBON ANALYZER	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OFTICAL PART, CTR; SN:76-148	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN143	\$
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2920	10'C-600	RM-121; 10' 10% CARBOWAX-600 GC; FID	
2100	PN-1	RM-121 FOROPAK-N GC; FID	
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS	
4131	EPPLEY-2	EFFLEY 14290 UV RADIOMETER; UNDER BAG	
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FII	l
4000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 GC; ECD	

747

AFF- 73 JP8-SHALE: 4 DAY STATIC 1981 APRIL 21

CLOCK	ELAPSED	OZONE	ОМ	NO2-UNC	NOX-UNC	THC	имнс	т
TIME		PPM	FPM	PPM	PPM	PPHC		DE
DY HR.			B-N0X-1	B-NOX-1	B-NOX-1			DORIG
1 715	-105	0.000	0.000	0.000	0.000	1.00	0,23	14
1 835	-25	0.007	0.330	0.149	0.488	29.40	30.90	19.
1 1005	65	0.015	0.188	0.256	0.456	29.30	29.30	25
1 1105	125	0.053	0.033	0.378	0.403	28.40	30.80	28
1 1205	185	0.178	0.010	0.333	0.321	27.10	29.50	29
1 1305	245	0.330	0.010	0.231	0.220	25.60	28.90	31
1 1405	305	0.414	0.010	0.144	0.146	24.90	28.60	29
1 1505	365	0.417	0.009	0.115	0.115	24.50	28.80	28.
1 1605	425	0.401	0.010	0.105	0.109	24.30	27.90	27
2 805		0.367	0.005	0.068	0.069	23,40	26.80	21.
2 905		0.351	0.007	0.071	0.071	23.70	27.50	24
2 1005		0.339	0.004	0.075	0.078	23.70	29.00	29
2 1105		0.448 B		0.073	0.078	23.50	28.10	32
2 1205		0.459	0.007	0.071	0.073	23.10	29.70	33.
2 1305			0.007		880.0	21.60	28.00	34
2 1405		0.472	0.009	0.061	0.066	22.50	28.00	34.
2 1505		0.465	0.010	0.056	0.061	22.30	27.30	33
2 1605	1865	0.449	0.010	0.051	0.059	22,20	27.90	32.
3 800			0.003	0.033	0.037		25.80	17.
3 850				-				
3 905		0.072	0.040	0.411	0.451	17.10	20.50	21
3 1005		0.201	0.012	0.397	0.391	16.60	19.30	24
3 1105		0.404	0.007	0.331	0.326	16.00	20.50	27
3 1205		0.639	0.009	0.251	0.248	15.00	20.40	31 :
3 1305		0.799	0.010	0.190	0.190	14.40	20.10	33,
3 1405		0.832	0.010	0.158	0.159	14.00	18.90	32
3 1505		0.819	0.010	0.142	0.146	13.70	18.20	32
3 1605	3305	0.797	0.010	0.130	0.134	13.70	18.90	30.
4 805	4265	0.584	0.001	0.070	0.071	12.70	16.50	14
4 905		0.575	0.009	0.070	0.072	13.00	17.30	15
4 1005		0.559	0.003	0.073	0.077	13.10	18.00	17
4 1105		0.540	0.007	0.074	0.079	13.10	18.00	19
4 1205		0.522	0.009	0.081	0.087	13.00	18.20	21
4 1305		0.505	0.009	0.083	0.090	13.20	17.80	24
4 1405		0.473	0.009	0.090	0.092	13.00	17.20	26
4 1505		0.486	0.010	0.091	0.096	13.70	17.50	27

-UNC	THC PPMC	NMHC PPMC	T DEG C		FREON 12 RAW DATA	CONDENS 10E3/CC	#PART>.3 FART/CC
0X-1	BK6800-1	BYRON	DORIC-1	EPPLEY-2	DMS-1	CNC143	CLIMET
.000	1.00	0.23	14.7			0.0	٥.
.488	29.40	30.90	19.5		354.3	30.0	0.
.456	29.30	29.30	25.8	2.31	desir blac sales bade balls 40%	20.0	0.
.403	28.40	30.80	28.1	3.92			1.
.321	27.10	29.50	29.3	3.55		15.2	175.
.220	25.60	28.90	31.4	3.19		12.0	412.
146	24.90	28.60	29.9	2.73		9.0	452.
115	24.50	28.80	28.8	1.91		6.5	451.
109	24.30	27.90	27.4	1.37	363.5	4.8	445.
0.069	23.40	26.80	21.5	1.68	375.8		189.
0.071	23.70	27.50	24.0	2.73		0.0	158.
0.078	23.70	29.00	29.0	3.19		0.0	139.
2.078	23.50	28,10	32.2	3.64		0.0	200.
0.073	23.10	29,70	33.2	3.37		0.0	256,
880.0	21.60	28.00	34.8	3.37		0.1	256 .
0.066	22.50	28.00	34.3	2.82		0.1	215.
0.061	22.30	27.30	33.2	1.82		0.1	169.
0.059	22.20	27,90	32.7	1.14	356.4	0.0	1.33.
0.037	22.00	25.80	17.5	0.54	366.6	0.0	2.
					275.5		
0.451	17.10	20.50	21.5	2.00		0.1	13.
0.391	16.60	19.30	24.5	2.63		0.2	280.
0.326	16.00	20.50	27.4	3.82		0.1	291.
0.248	15.00	20.40	31.0	3.37		0.1	244.
0.190	14.40	20.10	33.4	3.37		0.1	240.
0.159	14.00	18.90	32.8	2.82	also mayor also saids dand hard	0.1	291.
0.146	13.70	18.20	32.9	1.91		0.1	384.
0.134	13.70	18.90	30.2	1.32	282.1	0.1	277.
0.071	12.70	16.50	14.9	0.27		0.0	6 ·
0.072	13.00	17.30	15.8	0.59	285.7	0.1	5.
0.077	13.10	18.00	17.5	0.72		0.1	14.
0.079	13.10	18.00	19.6	1.28		0.1	61.
0.087	13.00	18.20	21.7	2.27		0.1	125.
0.090	13.20	17.80	24.6	3.28		0.1	157.
0.092	13.00	17.20	26.8	2.91		0.1	154.
0.096	13,00	17.50	27.2	2.00	279.6	0.2	145.

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AFF- 73 JP8-SHALE, 4 DAY STATIC 1981 APRIL 21

CLOCK TIME	ELAPSED TIME	#PART>.5 PART/CC	#PART>1 PART/CC	AER.V UM3/CC	AER.N PART/OC	AER.S UM2/CC	N-C5 PPM	N-C PP
DY HR.	(MIN)	CLIMET	CLIMET	TSI-023	TSI-023	TSI-023	DMS-1	VAR
								V
1 715	-105	0,	٥.	-0.	608.	1.		
1 835	-25	٥,	0.	2.	4.0E 04	210.	0.0003	0.1
1 1005	65	٥.	0,	21.	4.0E 04	945.		0.1
1 1105	125	0.	0.	26+	3.6E 04	1855.	* ** ** ** ** **	0.1
1 1205	185	6 •	0.	101.	3.0E 04	2552.		0.1
1 1305	245	172.	6.	145.	2.4E 04	3015.		
1 1405	305	298.	50.	153.	1.5E 04	2849.		0.1!
1 1505	365	309.	62.	131.	1.1E 04	2311.		0.1
1 1605	425	296.	53.	106.	8910.	1797。	0.0004	0.1!
2 805	1385	56.	1.	3.	595.	52.	0.0006	
2 905	1445	111.	2.	3.	569.	41.		0.1
2 1005	1505	124.	5.	5.	538.	76.		0.14
2 1105	1565	110.	10.	6.	539.	103.		0.14
2 1205	1625	115.	12.	8.	872.	113.		0.14
2 1305	1685	123.	12.	7.	623.	93.		0.14
2 1405	1745	135.	10.	4.	221.	61.		0.14
2 1505	1805	124.	9.	3.	641.	47.		0.14
2 1605	1865	100.	7 :	5.	296.	52.	0.0008	0.14
3 800	2820	2.	0.	2.	342.	0=	0 0000	A 4.
3 850	2870	# T			342+	25.	0.0009	0.17
3 905	2885	1.	0.	4.	1231,	81.	0.0007	
3 1005	2945	56.	1.	6.	858.	108.		0.10
3 1105	3005	182.	9.	4.	458.	62.		0.1(
3 1205	3065	250.	31.	2.	329.	33.		0.05
3 1305	3125	204.	43.	4.	1107.	33. 83.		0.05
3 1405	3185	183.	62.	6.	762.	107.		30.0
3 1505	3245	172.	64.	4.	614.	74.		30.0
3 1605	3305	168.	65.	4.	513.	67.	0.0010	30.0 30.0
				,,	010.	97.	0.0010	V • V c
4 805	4265	٥٠	0.	1.	351.	8.		
4 905	4325	5.	1.	0.	429.	12.	0.0011	
4 1005	4385	4.	1.	3.	374.	40.		
4 1105	4445	4 +	1.	2.	1132.	43.		
4 1205	4505	12.	1.	4٠	394.	60.		
4 1305	4565	33.	<u>i</u> .	2.	450.	41.		0.08
4 1405	4625	73.	2.	3.	120.	46.		0.07
4 1505	4685	92.	3.	3.	257.	45.	0.0012	0.07

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. ሥ / CC 023	AER.S UM2/CC TSI-023	N-C5 PPM DMS-1	N-C'O PPM VAR 3700	N-C11 PPM VAR 3700	N-C12 PPM VAR 3700	N-C13 RAW DATA VAR 3700	N-C14 PPM VAR 3700
8.	1.	~		·· ·· ·· ·· ·· ·	~~~~~	1871 MAR 1860 May 440 440	their seal was selle until your
E 04	210.	0.0003	J. 1836	0.2268	0.1250	0.0578	0.022
E 04	945.		0.1835	0.2253	0.1619	0.0740	0.028
E 04	1855.		0.1892	0.2224	0.1411	0.0742	0.024
E 04	2552.		0.1693	0.2038	0.1233	0.0631	0.018
E. 04	3015.				-		
E 04	2849.		0.1578	0.1885	0.1173	0.0569	B
E 04	2311.		0.1537	0.1834	0.1117	B	B
0 .	1797.	0.0004	0.1521	0.1794	0.1072	0.0597	0.017
5.	52.	0.0006					
9.	41.	~ ~ ~ ~ ~ ~	0.1524	0.1873	0.1080	0.0538	0.020
8.	76.		0.1452	0.1781	0.1114	0.0546	0.019
9.	103.		0.1440	0.1762	0.1013	0.0527	0.021
₽•	113.		0.1421	0.1737	0.0993	0.0517	0.021
3 ⋅	93.		0.1441	0.1739	0.1008	0.0514	0.017
1.	61.	~~	0.1420	0.1686	0.1011	0.0523	0.017
1.	47,		0.1421	0.1708	0.0992	0.0517	0.617
6 •	52.	0.0008	0.1407	0.1688	0.0961	0.0527	0.017
2.	25.	0.0009	0.1390	0.1640	0.0930	0.0509	0.924
		0.0007					
1.	81.		0.1068	0.1383	0.0817	0.0398	0.011
8.	108.		0.1003	0.1184	0.0681	0.0344	0.012
8.	62.		0.0958	0.1133	0.0657	0.0332	0.011
۶.	33.		0.0910	0.1075	0.0608	0.0325	0.011
7.	83.		0.0887	0.1050	0.0460	0.0305	0.011
2.	107.		0.0870	0.1017	0.0587	0.0302	0.012
4.	74.		0.0854	0.0989	0.0565	0.0288	0.012
3.	67.	0.0010	0.0824	0.0955	0.0549	0.0296	0.012
1.	8.			AND THE THE SEC SEC SEC			
9.	12.	0.0011	**************************************				
4.	40.						****
2.	43.						
6.	60.						
0.	41.		0.0817	0.0942	0.0524	0.0263	0.012
0.	46.		0.0790	0.0936	0.0575	0.0316	0.012
7.	45.	0.0012	0.0759	0.0861	0.0473	0.0261	0.010

349

AFF- 73 JF8-SHALE, 4 DAY STATIC 1981 AFRIL 21

CLBCK	ELAPSED	124TMERZ	CO	co	FAN	нсно	PART.024	FAR
TIME	TIME	PPM	PPM	PPM	PPM	PPM	PART/CC	PAR
DY HR.	(MIN)	VAR 3700	BYRON	BK6800-1	ECD-3	CA	TSI-023	TSI
1 715	-105	(en en up up up	0.40	0.98	0.000	erra but her, sain san she	501.	
1 835	-25	0.0461	0.25	1.02	0.000	0.004	2.7E 04	80
1 1005	65	0.0373	0.30	1.07	0.001		4008.	59
1 1105	125	0.0345	0.42	1.14	0.005		3006.	5:
1 1200	180					0.024		
1 1205	185	0.0309	0.35	1.16	0.013		835.	261
1 1305	245		0.65	1.20	0.031		3173.	-4:
1 1405	305	0.0259	0.61	1.15	0.042		-334.	-11
1 1505	365	0.0243	0.50	1.22	0.049		-835.	11
1 1600	420	0 0074				0.077		
1 1605	425	0.0231	0.72	1.28	0.053		334.	2.
2 800	1380					0.098		
2 805 2 905	1385 1445	0.0270	0.71	1.28	0.039	· · · · · · · · · · · · · · · · · · ·	334.	
2 1005			0.72	1.37	0.037		334.	
2 1105	1505 1565	0.0228 0.0240	0.74 0.68	1.42	0.035		0.	
2 1200	1620	0.0240	V+00	1.47	0.028	0.099	-167.	17
2 1205	1625	0.0216	1.01	1.53	0.020	0.099	774	
2 1305	1685	0.0199	0.75	1.52	0.020		334.	4
2 1405	1745	0.0193	0.87	1.63	0.013		167. 0.	1
2 1505	1805	0.0188	0.93	1.63	0.012		334.	17
2 1600	1860					0.130	334.	
2 1605	1865	0.0183	0.92	1.61	0.011	0+130	334.	-24
3 753	2813			and the war age was may		0.156	The late was age one stop	
3 800	2820	0.0232	1.11	1.70	0.005		167.	
3 855	2875					0.114		
3 905	2885	0.0151	1.03	1.83	0.007		334.	17
3 1005	2945	0.0134	1.20		0.012		0.	17
3 1105	3005	0.0118	1.34	1.89	0.024		0.	17
3 1200	3060					0,117		
3 1205	3065	0.0103	1.40		0.037		0.	{
3 1305	3125	0.0093	1.62	2.04	0.046		334.	8
3 1405	3185	0.0085	1.68	2.00	0.050		167.	
3 1505	3245	0.0083	1.50	2.07	0.048		167.	
3 1600	3300					0.162		~
3 1605	3305	0.0078	1.57	2.14	0.047		334.	-17
4 800	4260	delity with their angle man page				0.194		
4 805	4265		1.57	2.18	0.024		334.	- {
4 905	4325		1.89	2.14	0.025		334.	
4 1005	4385		1.72	2.18	0.026		167.	-17
4 1105	4445		1.60	2.22	0.026		835.	
4 1200	4500				-	0.196		
4 1205	4505 45.5		2.01	2.21	0.025		167.	- 8
4 1305	4565	^ ^^7	1.64	2.26	0.028		167.	3
4 1400 4 1500	4625	0.0072	1.78	2.24	0.028		-334.	26
4 1505	4680		4 / 73			0.185		
4 1303	4685	0.0065	1.67	2.34	0.028		167.	-8

F'AN	нсно	PART.024	PART.042	PART.075	PART,133	PART.237	PART.422
PPM	PPN	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
ECD-3	CA	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
0.000		501.	87.	44.	-24.	0.	0.
0.000	0.004	2.7E 04	8091.	4440.	530.	49.	0.
0.001		4008.	5916.	2.2E 04	7158.	418.	27.
0.005	***	3006.	522.	9857.	2.0E 04	2337.	160.
	0.024						
0.013		835.	2697.	355.	1.9E 04	6002.	467.
0.031		3173.	-435.	44.	1.1E 04	9102.	1027.
0.042			-174.			8475.	1314.
0.049		-835.		-266.			1161.
A AF-7	0.077						
0.053		334.	261.	-178.	2265.	5166.	920.
	0.098						
0.039		334.	٥.	44.	72.	111.	27.
0.037		334.	0,	89.	48.	62.	33.
0.035	***************************************	0.	0.	178.	169.	148.	33.
0.028	0.099	-167.	174.	0.	217.	258.	47.
0.020	0.099	334.					
0.020		167.	0. 87.	133.	96.	221.	73.
0.013		0.	0.	44. 44.	72.	185.	53.
V+V11		334.	174.	-44.	0.	123. 86.	47.
	0.130		1/7+	-44,	48.	00+	40.
0.011		334.	-261.	89.	24.	86.	7,
	0.156				-		
0.005		167.	0.	89,	48.	25.	7.
	0.114						
0.007		334.	174.	٥.	530.	172.	13.
0.012		0.	174.	178.	120.	332.	47.
0.024		0.	174.	44.	24.	172.	40.
	0.117						
0.037		0.	87.	133.	-24.	123.	7.
0.046		334.	87.	89.	362.	209.	20.
0,050		167.	0 +	44.	193.	308.	40.
0.048	A 4/A	167.	0.	44.	96.	283.	20.
^ ^ 4 7	0.162	774	434	** **		***	
0.047	what then man man over with	334.	-174.	44.	96.	172.	33.
	0.194						
0.024		334.	-87.	89.	-24.	49.	-13.
0.025		334.	0.	-44.	120.	12.	7.
0.026		167.	-174.	89.	217.	61.	7,
0.026		835.	0.	-44.	193.	135.	13.
0.025	0.196	147	0.7		4.45	4.40	
0.025		167. 167.	-87.	0.	145.	148.	13.
0.028		-334.	87. 261.	-44. -44.	72.	148.	20.
	0.185	-334+	201.		96.	111.	27.
0.028		167.	-87.	-44.	96.	98.	20.
- T W M. W		10/+	U/ •	-7 -1 +	70 4	7 O +	20.

AFF- 73 JP8-SHALE, 4 DAY STATIC 1981 APRIL 21

CLOCK TIME	ELAPSED TIME	PART.750 PART/CC		
DY HR.	(MIN)			
1 715	-105	0.		
1 835	-25	٥.		
1 1005	65	14.		
1 1105	125	28.		
1 1205 1 1305	185 245	77. 123.		
1 1405	305	158.		
1 1505	365	151.		
1 1605	425	140,		
2 805	1385	フ・		
2 905 2 1005 2 1105 2 1205 2 1305 2 1405	1445	4.		
2 1005	1505	11.		
2 1105	1565	11.		
2 1205 2 1305	1625 1685	14. 14.		
2 1405	1745	7.		
2 1505	1805	4.		
2 1605	1865	18.		
3 800	2820	7.		
3 905	2885	7.		
3 1005	2945	7.		
3 1105	3005	4.		
3 1205	3065	4.		
3 1305 3 1405	3125	7. 11.		
3 1505	3185 3245	4.		
3 1605	3305	7.		
0 1000	3303			
4 805	4265	4.		
4 905	4325	0.		
4 1005	4385	7.		
4 1105	4445	0.		
4 1205	4505	11.		
4 1305	4565	0.		
4 1405	4625	4.		
4 1505	4685	7•		

NOTES

- A PROBABLE INTERFERENCE BY FUEL ON OZONE MONITOR.
- B DASIBI PUMP WAS LEAKING. REPLACED DIAPHRAGM AT 1020.

1

AVERAGE ID INST. S.DEV UNITS VALUE Ţ DORIC-1 30.1 4.9 DEG C SIDE 1 T DORIC-1 29.9 4.3 DEG C SIDE 2 UV RAD EPPLEY-2 2.81 0.81 MW/CM2 ID INST. INITIAL UNITS CONC. NO PPM B-NOX-1 0.269 SIDE 1 NO B-NOX-1 0.263 F'F'M SIDE 2 SIDE 1 NO2-UNC B-NOX-1 PPM 0.102 SIDE 2 NO2-UNC B-NOX-1 0.102 PPM THC BK6800-1 17.40 PPMC SIDE 1 THC BK6800-1 23.90 PPMC SIDE 2

AFF- 74 JP-8 (PET) VS JP-8 (SHALE) 1981 APRIL 30

INSTRUMENTS USED

SAMPLING RATE

			KHIL
ID	LABEL	DESCRIPTION	(ML/MIN)
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4250	BYRON	BYRON 401 HYDROCARBON ANALYZER	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OPTICAL PART, CTR;SN:76-148	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN143	;
3000	CA	CHROMOTROFIC ACID HCHO ANALYSIS	
2650	VAR 3700	VARIAN GC; 30M SE-34 QUARTZ CAP. GC; FII)
2200	DM5-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2100	PN-1	RM-121 FOROPAK-N GC; FID	
2920	10'0-600	RM-121; 10' 10% CARBOWAX-600 GC; FID	
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	
1000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 GC; ECD	

353

AFF- 74 JP-8 (PET) VS JP-8 (SHALE) 1981 APRIL 30

CLOCK	ELAPSED	SIDE 1 OZONE	SIDE 2 OZONE	SIDE 1 NO	SIDE 2 NO	SIDE 1 NO2-UNC	SIDE 2 NO2-UNC	SII NOX-
T1ME	TIME	PPM	F'F'M	PPM	F'F'M	PPM	PPM	PF
DY HR.	(MIN)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-N0X-1	B-NOX-1	B-N(
1 835	25	0.016 A		0,269		0,102	that takes with man takes there	0.
1 845	-15	~~~~	0.001		0.263		0.102	~
1 1005	65	0.031		0.174		0.177		0.
1 1015	75		0.022		0.101		0.239	
1 1105	125	0.060	~ ~ ~ ~ ~ ~	0.063	** *** *** *** ***	0.271	~ ~ ~ ~ ~ ~	٥.
1 1115	135		0.152		0.011		0.291	
1 1205	185	0 169		0.010		0.291	MINE about Mine when when when	0.
1 1215	195		0.445		0.009		0.202	
1 1305	245	0.361		0.010		0.230		0.
1 1315	255		0.623		0.011		0.134	
1 1405	305	0.546		0.012		0.162		0.
1 1415	315		0.650		0.012		0.107	
1 1505	365	0.613		0.011		0.120	and the first first day	٥.
1 1515	375		0.633		0.014		0.096	
1 1605	425	0.612		0.012		0.093		0.
1 1613	435	100 ME 100 ME 100 LIN	0.609		0.013		0.089	100 May 40
2 815	1395	0.445		0.021		0.041		0.
2 825	1405		0.459		0.020	0.041	0.039	V +
2 1005	1505	0.417		0.019	~~~~	0.042		0.
2 1015	1515		0.424		0.021		0.043	~
2 1105	1565	0.402		0.020		0.051		0.
2 1115	1575		0.407		0.021		0.047	
2 1205	1625	0.398		0,021		0.056	~ ~ ~ ~ ~ ~ ~	٥.
2 1215	1635	~~~~~~~~~~~	0.403		0.022		0.051	
2 1305	1685	0.405		0.021		0.059		٥.
2 1315	1695		0.403		0.021		0.053	
2 1405	1745	0.408		0.022		0.059	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	٥.
2 1415	1755		0.396		0.022		0.052	
2 1505	1805	0.407		0.021		0.056		Ō.
2 1515	1815		0.388		0.021		0.054	

È

5 ~	NO2-UNC PPM	NO2-UNC PPM	NOX-UNC PPM	NOX-UNC PPM	THC PPMC	THC PPMC
X-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	BK6800-1	BK6800-1
	0.102		0.377		17.40	
593		0.102		0.370		23.90
	0.177	, , , , , , , , , , , , , , , , , , ,	0.360		17.40	
101		0.239		0.340		23.20
	0.271		0.332		16.80	
011		0.291		0.290		21.90
009	0.291	A 202	0.290	0.203	16.40	20 20
	0.230	0.202	0.230	0.203	15.70	20.70
011	0.230	0.134	0.230	0.139	12.10	19.50
A11	0.162	0.134	0.167	U+137	14.90	17.30
012	V+10.	0.107	V+1G/	0.113	17+70	18.80
\	0.120	V+1V/	0.125	O+110	14.20	15.00
014	~~~~	0.096		0.102		18.70
	0.093		0.100		13.70	
013		0.089		0.093		18.50
,	0.041	Andr adjust Spring States Angree	0.057		12.90	فيخد هنده بهجه ميدو
020		0.039		0.053		18.00
	0.042		0.058		13.30	
021		0.043		0.040		17.80
	0.051		0.068		13.40	
021		0.047		0.062		17.70
	0.056	A A E 4	0.070		13.30	47 (0
022	A AFO	0.051	A A30	0.069	4' 30	17.60
	0.059	A AF7	0.072	^ ^7^	1120	17 45
021	0.059	0.053	0.071	0.070	12.80	17.40
022	0.059	0.052	0.0/1	0.069	12.00	17.20
V.42	0.056	0.025	0.070	U+U07	12,90	1/+20
021	0.038	0.054	0.070	0.070	14+7V	17.00

SIDE 1 SIDE 2 SIDE 1 SIDE 2 SIDE 1 SIDE 2

354

AFF- 74 JP-8 (PET) VS JP-8 (SHALE) 1981 APRIL 30

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 NMHC PPMC BYRON	SIDE 2 NMHC PPMC BYRON	SIDE 1 T DEG C DORIC-1	SIDE 2 T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	SIDE 1 CONDENS 10E3/CC CNC-143	SI CON 10E CNC
1 835	-25	14.10		21.0			31.0	
1 845	-15		20.40		21.5	*** *** *** *** ***		5
1 1005	65	15.30	~ ~ ~ ~ _	26.0		2.68	20.0	
1 1015	75		19.70		28.1	3.37		3
1 1105	125	13.90		32.2		3.78	14.0	
1 1115	135		20.00		32.2	3.87		2
1 1205	185	14.30		34.8		3.82	12.0	
1 1215	195	***************************************	19.10		33.8	3.87		1:
1 1305	245	14.90		35.9		3.55	9.5	***
1 1315	255		18.20		34.3	3.46		1.
1 1405	305	15.00		35.0		2.63	7.5	
1 1415	315		18.10		33.7	2.45		11
1 1505	345	13.70		32.1		2.09	5.2	
1 1515	375		19.00		31.3	2.00		•
1 1605	* 425	13.80		29.3		1.18	4.8	
1 1615	435		18.00		29.0	1.05		•
2 815	1395	11.20		19.9			0.0	
2 825	1405		17.00		19.8			(
2 1005	1505	13.00		25.5		2.59	5.8	
2 1015	1515		18.00		27.4	3.09		(
2 1105	1565	13.50		29.6		3.46	4.8	
2 1115	15 <i>7</i> 5		17.30		30.3	3.37		(
2 1205	1625	10.70		32.1		3.19	3.6	
2 1215	1635		18.20		31.0	3.19		(
2 1305	1685	12,90		33.5		3.09	2.3	
2 1315	1695		16.10		32.3	2.96		(
2 1405	1745	13.00		33.0		2.45	1.7	
2 1415	1755		16.90		32.5	2.32		(
2 1505	1805	11.70		32.3		1.87	0.9	
2 1515	1815		17.00		31.6	1.73		(

NO DATA TAKEN

l							
DE 2	IIII BAB	SIDE 1	SIDE 2	SIDE 1		SIDE 1	
T 50.5	UV RAD	CONDENS	CONDENS	#PART>.3	#PART>.3	#PART>.5	‡ PART>.5
EG C IC-1	MW/CM2	10E3/CC	10E3/CC	PART/CC	PART/CC	PART/CC	PART/CC
.t-1	EPPLEY-2	CNC-143	CNC-143	CLIMET	CLIMET	CLIMET	CLIMET
	and the are the are the	7.4 0		_			
.5		31.0		٥.		0.	
•0	2.68	~~~~	53.0		0.		0.
. 1	2.68 3.37	20.0	70.0	0.		0.	
. 1		14.0	30.0		٥,		٥.
. 2	3.78	14.0		0.		0,	
÷ مذ	3.87		22.0		0.		0.
	3.82	12.0	***	14.		٥.	
• 8	3.87		18.2		129.		1.
	3.55	9.5		332.		60.	
٠ 3	3.46		14.5	***************************************	388.		109.
	2.63	7.5		444.		250.	
٠7	2.45		10.3		425.		183.
	2.09	5.2		458.		310.	
• 3	2.00		7.5		423.		195.
*	1.18	4.8		456.	*** ***	319.	
0	1.05		6.6		415.		188.
		0.0		215.		47.	
8			0.0		232.	** ** ** **	29.
	2.59	5.8		146.		95.	
4	3.09		0.0		209.		49.
	3.46	4.8		116.		88.	
3	3.37		0.0		178.		97.
	3.19	3,6	~~~~~	159.		69.	
0	3.19		0.0		189.		127.
	3.09	2.3		270.		73.	
. 3	2.96		0.0		197.		117.
	2.45	1.7		327.		103.	11/+
5	2.32		0.1		187.		102.
	1.87	0.9		345.		121.	
6	1.73	*** *** *** *** ***	0.0		166.	121.	91.
			- · -		***		/ 1. •

355

AFF- 74 JP-8 (PET) VS JP-8 (SHALE) 1981 APRIL 30

	CLOCK TIME	TIME	SIDE 1 *PART>1 PART/CC	SIDE 2 #PART>1 PART/CC	SIDE 1 AER.V UM3/CC	SIDE 2 AER·V UM3/CC	SIDE 1 AER.N PART/CC	SIDE 2 AER.N PART/CC	SIDI AER UM2.
D.	Y HR.	(MIM)	CLIMET	CLIMET	TSI-023	TSI-023	TSI-023	TSI-023	TSI-
	706	-120							
1									
1	820	-40			0.		0.		
1	835	-25	0.		U+ 	4.	· · · · · · · · · · · · · · · · · · ·	1.6E 05	'
1		-15		0.		4.		1.05 03	
	1005	65	٥.		8,		1.0E 05		61
	1015	75		٥,		8.		1.6E 05	
	1105	125	٥.		12.		7.5E 04	4 35 45	85
	1115	135		0.		17.		1.2E 05	
	1205	185	0.		16.		ა∙¢E 04		112
	1215	195		0.		31.		9.5E 04	
	1305	245	٥.		20.		6.3E 04	~~~~~	134
	1315	255		1.		28.		9.0E 04	
	1405	305	24.		25.		5.9E 04		149
	1415	315		6.		26.		7.6E 04	
	1505	365	60.		28.		4.9E 04		136
	1515	375	and Her dept made part while	8.		24.		6.3E 04	
	1605	425	68.		22.	2012 2018 2018 2019 1019 1019	4.1E 04		114
1	1615	435		8.		23.		4.8E 04	
2	725	1345							
2	815	1395	1.		9.	* * * * * * * * * * * * * * * * * * * *	1488.		ን'
2	825	1405		0.		0.		3229.	
	1005	1505	1.		4.		2.7E 04		32
2	1015	1515		1.		-1.		2863.	
2	1105	1565	1.		٤.		2.3E 04		43
2	1115	1575		1.		2.		1970.	
2	1205	1625	1.		11.		2.0E 04		46
2	1215	1635		3.		1.		2496.	
2	1305	1 6 8 5	2.		9.		1.7E 04		46
	1315	1695		5.		4.		1497.	
	1405	1745	3.		6.		1.5E 04		37
	1414	1754							
	1415	1755		5.		5+		1589.	
	1505	1805	4.		5.		1.1E 04		28
	1506	1806							
	1515	1815		5.	****	3.		1153.	

----- NO DATA TAKEN

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I						
DE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
R.V	AER.N	AER . N	AER.S	AER.S	N-C5	א−C5
3/CC	PART/CC	PART/CC	UM2/CC	UM2/CC	PPM	F'F'M
-023	TSI-023	TSI-023	TSI-023	TSI-023	DMS-1	DMS-1
					0.0002	
				train rate man arm man com-		0.0002
	٥.		0.			
4.	· · · · · · · · · · · · · · · · · · ·	1.6E 05		401.		
-7 *	1.0E 05		619.			
8.		1.6E 05		742.		
O+	7.5E 04	1.05 00	858,	/ T - V		
17.	/+JL V4	1.2E 05		1305.	PE	
1 / +	6.6E 04	1+26 05	1126.	1000+		
31.	0.0E 04	9.5E 04	*****	1807.		
	6.3E 04	7100 01	1346.			
28.	U+0E U-1	9.0E 04		1881.		
	5.9E 04	7102 01	1493,			
26.	UV/L V1	7.6E 04		1675.		
	4.9E 04		1369.		-	
24.		6.3E 04		1381.		0.0005
	4.1E 04		1149.		0.0005	
23.		4.8E 04		1118.	open date date permit date toda	
					0.0011	
	1488.		99.			
0.		3229.		45.		0.0004
	2.7E 04		324.			
-1.		2863.		47.	~ ~ ~ ~ ~ ~	
	2.3E 04		439.			~~~~~
2.		1970.		65.		
	2.0E 04		464.			
1.		2496+		62.		
	1.7E 04		467.			
4.		1497.		87.		
	1.5E 04		379.			
						0.0007
2.		1589.	and the sale from the term	51.		team early risks desir artis, steps
	1.1E 04		288.			
		-			0.0007	
3.		1153.		66.		

AFF- 74 JP-8 (PET) VS JP-8 (SHALE) 1981 APRIL 30

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 N-C10 FPM VAR 3700	SIDE 2 N-C10 PPM VAR 3700	SIDE 1 N-C11 PPM VAR 3700	SIDE 2 N-C11 FPM VAR 3700	SIDE 1 N-C12 PPM VAR 3700	SIDE 2 N-C12 PPM VAR 3700	S] N- F VAF
1. 700 1. 845	-120 -15	0.0256	0.1640	0.0861	0.1777	0.0734	0.1385	0.
1 1005	65	0.0257	~~~~	0.0858		0.0825	V+1363	0.
1 1115	135		0.1500		0.1737		0.1074	~-
1 1315	255		0.1357		0.1683		0.1171	
1 1405	305	0.0243		0.0804		0.0782		٥.
1 1515	375		0.1291		0.1547		0.0949	
1 1605	425	0.0234		0.0776		0.0727		٥.
2 725	1345				*** *** *** *** ***	***************************************		
2 825	1405		0.1252		0.1465		0.0889	
2 1015	1515		0.1191	******	0.1412		0.0860	
2 1104	1564	0.0231		0.0732		0.0670		0.
2 1214	1634		0,1128		0.1319		0.0791	
2 1308	1688	0.0211		8290.0		0.0598	***	٥.
2 1414	1754		0.1149		0.1355		0.0819	
2 1506	1806	0.0212	MA hair come come anno agus	0.0694		0.0650		٥.

E 2 11 M	SIDE 1 N-C12 PPM	SIDE 2 N-C12 PPM	SIDE 1 N-C13 PPM	SIDE 2 N-C13 PPM	31DE 1 N-C14 PPM	SIDE 2 N-C14 PPM
3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700
	0.0734	magas agang atom majan milita mina	0.0588	come there again time time com	0.034	
927		0.1385		0.0704		0.025
	0.0825		0.0622		0.029	
737		0.1074		0.0602		0.019
683		0.1171		0.0929		0.060
	0.0782	fees were seen have after them	0.0751		0.052	
547		0.0949		0.0554		0.025
	0.0727	the pain adap days and body	0.0606		0.034	
	and the time and time					
1465		0.0889		0.0442		0.013
1412		0.0860	such store paper mant with white	0.0459		0.015
	0.0570		0.0525		0.027	
1319		0.0791		0.0437		0.015
	0.0598		0.0496	****	0.025	
355		0.0819		0.0426		0.014
	0.0650		0.0506		0.022	

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AFF- 74 JF-8 (PET) VS JF-8 (SHALE) 1981 APRIL 30

CLOCK TIME	ELAPSED TIME	PPM	SIDE 2 124TMEBZ PPM	SIDE 1 CO FPM	SIDE 2 CO PPM	SIDE 1 PAN PPM	SIDE 2 PAN PPM	SID HC PP
DY HR.	(MIN)	VAR 3700	VAR 3700	BK6800-1	BK6800-1	ECD-3	ECD-3	С
t 545	-195					0.000	0.000	
1 700	-120	0.0089						
1 835	-25			0.85				
1 845	-15		0.0314		0.91		0.000	
1 853	- フ							0.
1 1005	65	0.0072		0.92				
1 1015	75				0.86			
1 1105	125		100 page 100 100 agus min	0.92		0.005		
1 1115	135		0.0262		0.91		0.011	
1 1205	185			1.12				
1 1210	190						^ ^ ^ 7	0 • 1
1 1215	195			4 0 4	0.98	0.014	0.027	
1 1305 1 1315	245 255		0.0255	1.24	1.02	0.014	0.045	
1 1405	233 305	0.0056	0+0233	1.06	1+02	0.025		
1 1415	315			I+VU	1.07		0.051	
1 1505	365			1.04		0.038		
1 1515	375		0.0197		1.12		0.051	
1 1605	425	0.0049		1.14		0.045		
1 1610	430							0.0
1 1615	435				1.14		0.054	
2 725	1345	0.0043						
2 .810	1390							0.1
2 815	1395			1.08		0.014		
2 825	1405		0.0199		1.08	mes mas any other with mass	0.012	
2 1005	1505			1.10	*****************	0.016		
2 1015	1515		0.0181		1.20		0.016	
2 1104	1564	0.0049						
2 1105	1565			1.21		0.018	0.016	
2 1115 2 1200	1575				1.22		0.018	0.(
2 1200	1620 1625			1.43	the safe and see the safe	0.018		
2 1203	1634		0.0157	1+40		0.016		
2 1215	1635		V.VIJ/		1.29		0.017	
2 1305	1685			1,27		0.019	~~~~	··· ··· ·
2 1308	1688	0.0042						
2 1315	1695				1.33		0.017	
2 1405	1745			1.25		0.017		
2 1414	1754		0.0155					
2 1415	1755		~ ~ ~ ~ ~ ~ ~		1.35		0.015	
2 1505	1805			1.32				
2 1506	1806	0.0039		** ** ** - **	their fram their drops proper any			
2 1510	1810							0.4
2 1515	1815	pain non pain quin pain nan	~	20th 50th 1Pto 10th 50th 50th	1.38		0.016	

E 2	SIDE 1 PAN	SIDE 2 PAN	SIDE 1 HCHO	SIDE 2 HCHO	SIDE 1 PART.024	SIDE 2 PART.024
1 00-i	PPM ECD-3	FFM ECD-3	FFM CA	PPM Ca	PART/CC TSI-023	PART/CC TSI-023
	0.000	0.000				and the same was assu
 21						
/ 1 		0.000				1.4E 05
			0.004	0.004		~~~~
36					4.3E 04	
	0.002					1.0E 05
71	0+002	0.011			7348.	
		0.011			4000	1.4E 04
			0.019		1002.	
78		0.027	0.019	0.031		
\	0.014	0+027				-1336.
2		0.045			334.	
	0.025				-668.	0.
7		0.051				-1503.
	0.038				1336.	-1303+
2		0.051				3507.
	0.045			*** *** *** ***	835.	
			0.061	0.076		
. 4	and the man was are also	0.054				1837.
		OFF AND ONE SAID VILL SAID				
			0.094	0.113		
	0.014				167.	***
8	^ ^ 4	0.012				1336.
20	0.016			and the sain spin age.	1837.	
		0.016				1169.
	0.018					
2	0.010	0.016			334.	
· 		0.010	0.079			-167.
	0.018		V+V/7	0.106		
					-835.	
9		0.017	~~ ~~ ~~ ~~ ~~			
	0.019		-		-2338.	334.
			~ · · · · · · · ·	****	-2330+	
3		0.017				-334.
	0.017				334.	-334+
					337+	
5		0.015				0.
					334.	
	100 TO 100 Jan 400 mg					
		fifty that their tags also repa	0.094	0.096		
8		0.016				167.

AFF- 74 JP-8 (PEr) VS JP-8 (SHALE) 1981 APRIL 30

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 PART.042 PART/CC TSI-023	SIDE 2 PART.042 PART/CC TSI-023	SIDE 1 PART.075 PART/CC TSI-023	SIDE 2 PART.075 PART/CC TSI-023	SIDE 1 PART.133 PART/CC TSI-023	SIDE 2 PART.133 PART/CC TSI-023	S PA PA TS
1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205	-25 -15 -65 -75 125 135 185	3.4E 04 1.0E 04	1.6E 04 4.3E 04 5.0E 04	1.5E 04 3.3E 04 5.2E 04	1865. 1.7E 04 5.2E 04	362. 819. 2362.	193.	
1 1215 1 1305 1 1315 1 1405 1 1415 1 1505 1 1515 1 1605	195 245 255 305 315 365 375 425	696. 87. -435.	0. 2175. 870.	5.6E 04 4.8E 04 3.6E 04 	8.0E 04 8.2E 04 5.2E 04	6242. 1.2E 04 1.2E 04 1.1E 04	7061. 7061. 7061.	
1 1615 2 815 2 825 2 1005 2 1015 2 1105 2 1115	435 1395 1405 1505 1515 1545	-348. -348. 1.3E 04 -435.	509. 174. 174. 87.	1376. 1.1E 04 2.1E 04	3.9E 04 1154. 1243. 1465.	265. 627. 843.	6555. 602. 241. 627.	
2 1205 2 1215 2 1305 2 1315 2 1405 2 1415 2 1505 2 1515	1625 1635 1685 1695 1745 1755 1805	-522. 261. -87. 	348. 261. 0. 	1.6E 04 1.2E 04 8791.	1199. 1066. 1110. 	1277. 2771. 2506. 2362.	578. 434. 506. 	1 1

IDE 2 RT.075 RT/CC I-023	SIDE 1 FART.133 FART/CC TSI-023	SIBE 2 PART.133 PART/CC TSI-023	SIDE 1 PART.237 PART/CC TSI-023	SIDE 2 PART.237 PART/CC TSI-023	SIDE 1 PART.422 PART/CC TSI-023	SIDE 2 PART.422 PART/CC TSI-023
		at 44 w	V-1 2-1 2-1 3-1 1-1 1-1		SET Clar with Name State SEC	other than the side with
865.	362.	0.	37.	49.	7.	40.
.7E 04	819.	193.	62.	0.	7.	7.
B. OE 04	2362.	1205. 5013.	12.	0. 49.	0.	27.
B.2E 04	6242.	7061.	49.	160.	0.	· · · · · · · · · · · · · · · · · · ·
5.7E 04	1.2E 04	8194.	-49.	74.	20.	
5.2E 04	1.2E 04	7061.	406.	258.	-40.	20.
3.9E 04	1.1E 04	6555.	0.	86.	53.	20.
1154.	265.	602.	12.	 -25.	-27.	-13.
1243.	627.	241.	37.	-23+	7.	93.
1465.	843.	627.	25.	-49.	13.	
1199.	1277.	578.	172.	37.	-73.	0.
1066.	2771.	434.	98.	0.	7.	67.
1110.	2506.	506.	172.	-37.	-20.	7.
666.	2362.	410.	0.	74.	0.	0.

AFF- 74 JP-8 (PET) VS JP-8 (SHALE) 1981 APRIL 30

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 PART.750 PART/CC TSI-023	SIDE 2 PART.750 PART/CC TSI-023
1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305 1 1315 1 1405 1 1505 1 1515 1 1605	-25 -15 65 725 135 185 195 245 255 305 315 365 375 425	7. 7. 7. 0. 18.	0. 7. 4. 28. 0. 4.
1 1615 2 815 2 825 2 1005 2 1015 2 1105 2 1215 2 1205 2 1305 2 1315 2 1405 2 1415 2 1505 2 1515	435 1395 1405 1505 1515 1565 1575 1625 1635 1685 1695 1745 1755 1805 1815	42.	21. 0. -21. 7. 0. 4. -11.

NOTES

- A THE NEPHELOMETER WAS LEAKING SOME ROOM AIR INTO THE SAMPLE
- A MANIFOLD. THE NEPH WAS BYPASSED, BUT THE BACKGROUND VALUES
- A ARE NO GOOD. ALSO, THE WHITBY DATA FOR SIDE A, FRET=O, ARE
- A NO GOOD, DATA FOR SIDE B ARE O.K.
- B RT=.99
- A FROBABLE INTERFERENCE BY FUEL ON OZONE MONITOR.

AFF- 75 JP-8(SHALE) VERSUS JP-8(PET) 1981, MAY 5,6

DAY 1 (MAY 5)

0500: START FILL. WET: 7.0; DRY: 0.0; DEW POINT: 6.8; R.H.=47%

0628: INJECTED 3.8 ML NO2 0630: INJECTED 14.0 ML NO

0636: DIVIDE BAG

0650: INJECTED 385 MICROLITERS JF-8 (SHALE) INTO SIDE A; INJECTED 385 MICROLITERS JP-8 (PET) INTO SIDE B. 2 MINUTES OF N2 ONLY THEN HEAT TO 250C FOR 30 MINUTES. BOTH SIDES INJECTED SIMULTANEOUSLY.

0905: WEATHER: SOME LOW CLOUDS, APPEARS TO BE BURNING OFF.

1120: STILL A LOT OF CLOUDS

1620: RUN FINISHED FOR DAY 1.

1630: COVERED BAG.

DAY 2 (MAY 6)

0900: UNCOVER BAG

1620: RUN OVER; BAG DUMPED AND FURGED.

NOTE: NO TSI-023 DATA FOR DAY 2 BECAUSE OF INSTRUMENT MALFUNCTION.

T=0 AT 900 FST

BAG NO. 21 USED

INST.	AVERAGE VALUE	S.IEV	UNITS	
DORIC-1	25.1	4.5	DEG C	SIDE 1
DORIC-1	24.7	3.9	DEG C	SIDE 2
EPPLEY-2	2.57	0.80	MW/CM2	
INST.	INITTAL	UNITS		
	CONC.			
B-NOX-1	0.297	PPM	SIDE 1	
B-NOX-1	0.293	PPM	SIDE 2	
B-NOX-1	0.101	PPM	SIDE 1	
B-NOX-1	0.101	PPM	SIDE 2	
BK6800-1	21.80	PPMC	SIDE 1	
BK6800-i	19.20	PPMC	SIDE 2	
	DORIC-1 DORIC-1 EFPLEY-2 INST. B-NOX-1 B-NOX-1 B-NOX-1 B-NOX-1 B-NOX-1 BK6800-1	VALUE DORIC-1 25.1 DORIC-1 24.7 EPPLEY-2 2.57 INST. INITTAL CONC. B-NOX-1 0.297 B-NOX-1 0.293 B-NOX-1 0.101 B-NOX-1 0.101 BK6800-1 21.80	VALUE DORIC-1 25.1 4.5 DORIC-1 24.7 3.9 EPPLEY-2 2.57 0.80 INST. INITTAL UNITS CONC. B-NOX-1 0.297 PPM B-NOX-1 0.101 PPM B-NOX-1 0.101 PPM BK6800-1 21.80 PPMC	VALUE DORIC-1 25.1 4.5 DEG C DORIC-1 24.7 3.9 DEG C EPPLEY-2 2.57 0.80 MW/CM2 INST. INITTAL UNITS CONC. B-NOX-1 0.297 PPM SIDE 1 B-NOX-1 0.101 PPM SIDE 1 B-NOX-1 0.101 PPM SIDE 1 B-NOX-1 0.101 PPM SIDE 2 BK6800-1 21.80 PPMC SIDE 1

AFF- 75 JP-8(SHALE) VERSUS JP-8(PET) 1981, MAY 5,6

INS	TRUMENTS I	JSED	SAMFLING RATE
I D	LABEL	DESCRIPTION	(ML/MIN)
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4250	BYRON	BYRON 401 HYDROCAFBON ANAI YZER	
4350	CLIMET	CLIMET 208 OPTICAL PART, CTR; SN:76-148	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN143	3
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
2650	VAR 3700	VARIAN GC; 30K SE-54 QUARTZ CAP. GC; FII)
2100	F'N-1	RM-121 POROPAK-N GC; FID	
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2920	10'C-600	RM-121; 10' 10% CARBOWAX-600 GC; FID	
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS	
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	
4000	FCD-3	AF-LAB: 12° 5% CARROWAX-600 GC; FCD	

AFF- 75 JP-8(SHALE) VERSUS JP-8(PET) 1981, MAY 5,6

CLOCK T(ME	ELAPSED TIME	SIDE 1 OZONE FPM	SIDE 2 OZONE PPM	SIDE 1 NO PPM	SIDE 2 NO FPM	SIDE 1 NO2-UNC PPM	SIDE 2 NO2-UNC PPM	SII NOX: FI
BY HR.	(MIM)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-N0X-1	8-NOX-1	B-N1
1 615	-165	0.000	0.000	0.011	0.011	0.007	0.007	٥
1 835	-25	0.008 A		0.297		0.101		0
i 845	-15		0.023 6		0.293		0.101	
1 1005	65	0.011		0.209		0.163		0 -
1 1015	75		0.042	*** *** *** *** ***	0.137		0.219	
1 1105	125	0.034		0.095		0.255		O 4
1 1115	135		0.047		0.042		0.293	
1 1205	185	0.100		0.021		0.309	Pis mp on 100 to 100	O (
1 1215	195		0.142		0.018		0.297	en en e
1 1305	245	0.238		0.013		0.263		O 4
1 1315	255		0.256		0.013		0.251	***
1 1405	305	0.405		0.013		0.207		0.
1 1415	315		0.357		0.012		0.207	
1 1505	365	0.474		0.013		0.152		٥.
1 1515	375		0,438		0.012		0.162	
1 1605	425	0.504		0.012		0.120	Sub-offs you had then song	٥,
1 1615	435	and that age office the	0.451		0.012		0.130	
2 835	1415	0.354	una P7 Mai and any US	0.013		0.050		Q.
2 845	1425		0.299		0.016		0.051	
2 1005	1505	0.332		0.013		0.063		٥.
2 1015	1515		0.293		0.013		0.042	
2 1105	1565	0.332		0.011		0.070		0.
2 1115	1575		0.308		0.015	And other hope and and other	0.046	
2 1205	1625	0.344		0.010		0.071	AND THE LOW THE THE THE	0.
2 1215	1635	300 000 000 00 000 000	0.326	~~~~~	0.011		0.057	
2 1305	1685	0.361		0.010	-	0.071		0.
2 1315	1695		0.344		0,011		0.050	
2 1405	1745	0.374	~ ~ ~ ~ ~	0.011		860.0		0.
2 1415	1755		0.350		0.010		0.051	
2 1505	1805	0.376	10. 10th 100 10th Lat 240	0.009		0.070		0.
2 1515	1815		0.353		0.010		0.052	unt que elle

)

DE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
NO	NO2-UNC	M02-UNC	NOX-UNC	NOX-UNC	THC	THC
E-M	PPM	PFM	FPM	P:PM	PPMC	PPMC
0X-1	B-N0X-1	B-NOX-1	B-NOX-1	8-NOX-1	BK6800-1	BK6800-1
.011	0.007	0.007	0.016	0.016	0.84	0.34
	0.101		0.400		21.80	
.293		0.101	_ ~ ~ ~ ~ ~ ~ ~	0.393		19.20
	0.163		0.381		22.00	
.137		0.219		0.362.		18.80
	0.255		0.357		21.70	
.042		0.293		0.337		18.10
	0.309	~ ~ ~ ~ ~ ~	0.322	part help also than this pass	21.20	~
.018		0.297		0.305		17.90
	0.263		0.271		20.40	
.013		0.251		0.259		17.50
	0.207		0.211		19.40	
.012		0.207		0.213		16.60
(0.152		0.160		18.60	~~~~
.012		0.162		0.170		16.20
	0.120		0.128		18.50	
.012		0.130		0.138		16.00
	0.050	spec who have been open sign.	0.061		17.10	
.016		0.051		0.062		15.10
	0.063		0.072		18.00	Fig. 100 204 (40 also aug
.013		0.042		0.051		15.20
	0.070		0.077		17.20	
.015	*************	0.046		0.057		15.20
	0.071		0.079		17.10	
.011		0.057	~ ~ ~ ~ ~ ~	0.064		15.00
~~~	0.071		0.079	the day and the disc day	16.80	
.011		0.050	~~~~	0.059		14.80
	0.068		0.074		16.70	
.010		0.051		0.060		14.60
	0.070		0.078		16.50	
.010		0.052		0.060		14.40

AFF- 75 JP-8(SHALE) VERSUS JP-8(PET) 1981,MAY 5,6

1       615       -165       15.0       15.0        0.0       0.0       0.         1       835       -25       17.9         40.0        0.          1       845       -15        18.3        74.0        0.          1       1005       65       21.8        2.27       24.0        0.          1       1015       75        24.9       3.00        37.0
1       835       -25       17.9        40.0        0.          1       845       -15        18.3        74.0          1       1005       65       21.8        2.27       24.0        0.
1       845       -15        18.3        74.0          1       1005       65       21.8        2.27       24.0        0.          1       1015       75        24.9       3.00        37.0          1       1105       125       25.8
1 1005       65       21.8        2.27       24.0        0.          1 1015       75        24.9       3.00        37.0          1 1105       125       25.8        2.73       19.0
1 1015     75      24.9     3.00      37.0        1 1105     125     25.8      2.73     19.0      0.        1 1115     135      24.6     1.71      28.0        1 1205     185     25.9      3.46     14.0      0.        1 1215     195      26.2     3.46      20.0      1       1 1305     245     29.9
1 1105       125       25.8        2.73       19.0        0.          1 1115       135        24.6       1.71        28.0          1 1205       185       25.9        3.46       14.0        0.          1 1215       195        26.2       3.46
1 1205     185     25.9      3.46     14.0      0.        1 1215     195      26.2     3.46      20.0      1       1 1305     245     29.9      2.82     12.0      34.        1 1315     255      27.5     2.54      17.0
1 1205     185     25.9      3.46     14.0      0.        1 1215     195      26.2     3.46      20.0      1       1 1305     245     29.9      2.82     12.0      34.        1 1315     255      27.5     2.54      17.0
1 1305     245     29.9      2.82     12.0      34.        1 1315     255      27.5     2.54      17.0      2°       1 1405     305     28.5      2.18     9.0      283.        1 1415     315      26.3     1.82      13.5      3°       1 1505     365     25.7      1.46     7.0      387.        1 1515     375
1 1305     245     29.9      2.82     12.0      34.        1 1315     255      27.5     2.54      17.0      2°       1 1405     305     28.5      2.18     9.0      283.        1 1415     315      26.3     1.82      13.5      3°       1 1505     365     25.7      1.46     7.0      387.        1 1515     375      24.0     1.37
1 1405     305     28.5      2.18     9.0      283.        1 1415     315      26.3     1.82      13.5      305       1 1505     365     25.7      1.46     7.0      387.        1 1515     375      24.0     1.37      11.0      408.       1 1605     425     24.6      1.23     5.0      408.       1 1615     435      23.8     1.14
1 1415     315      26.3     1.82      13.5      3       1 1505     365     25.7      1.46     7.0      387.        1 1515     375      24.0     1.37      11.0      4       1 1605     425     24.6      1.23     5.0      408.       1 1615     435      23.8     1.14      8.0      4       2 835     1415     19.7       0.0      222.
1 1505     365     25.7      1.46     7.0      387.       1 1515     375      24.0     1.37      11.0      408.       1 1605     425     24.6      1.23     5.0      408.       1 1615     435      23.8     1.14      8.0        2 835     1415     19.7      0.0      222.
1 1515     375      24.0     1.37      11.0      4.1       1 1605     425     24.6      1.23     5.0      408.       1 1615     435      23.8     1.14      8.0      42       2 835     1415     19.7       0.0      222.
1 1605     425     24.6      1.23     5.0      408.       1 1615     435      23.8     1.14      8.0      42       2 835     1415     19.7      0.0      222.
1 1615 435 23.8 1.14 8.0 42 2 835 1415 19.7 0.0 222
2 835 1415 19.7 0.0 222
2.2.4
7 845 1425 100
2,4,7
2 1005 1505 24.0 2.86 0.6 178
2 1015 1515 26.0 3.28 0.8 32
2 1105 1565 26.8 3.55 0.4 152.
2 1115 15/5 26.8 3.64 0.7 3(
2 1205 1625 28.0 3.46 0.2 213
2 1215 1635 27.7 3.46 0.5 30
2 1305 1685 30.2 3.37 0.1 280
2 1315 1695 29.0 3.28 0.4 32
2 1405 1745 29.6 2.36 0.0 305
2 1415 1755 28.3 2.27 0.2 34
2 1505 1805 29.0 1.96 0.0 259
2 1515 1815 27.6 1.87 0.1 32

}

SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 #PART>.3 PART/CC CLIMET	SIDE 2 *PART>.3 PART/CC CLIMET	SIDE 1 *PART>.S PART/CC CLIMET	SIDE 2 #PART>.5 PART/CC CLIMET	SIDE 1 *PART>1 PART/CC CLIMET	SIBE 2 #PART>1 PART/CC CLIMET
0.0	o.	0.	0.	Q.	٥.	0.
74.0	~	20.	0.		٥.	
	٥,	~··	0.	٥.		0,
37.0		25.		1.	0.	
	٥.		0.	1+	0.	0,
28.0		39.		1.		0.
	٥,		0.		0.	
20.0		116.		3.		٥.
17.0	34.		0.		0.	
17.0	283.	272.		30.	~~~~~	0.
13.5	483+	378.	35.		0.	
	387.	3/8.	139.	118.		1.
11.0		416.	137.	407	2.	
	408.		192.	193.	9.	9.
8.0		425.	*/ <u>*</u> +	226.	9.	
		. —		220+		18.
	222.		30.		0.	
0.1		297.		69.		1.
	178.		47.		0.	
0.8		324.		93,		3.
0.7	152.		72.		1.	
V•/	213.	300.		123.		5.
0.5	213+	305.	82.		2.	
	280.	303.	97.	152.		8.
0.4		322.	7/+	166.	3.	
	305.		102.	100+	3.	11.
0.2		340.		179.	3,	13.
	259.		79.	*//*	3.	13.
0.1		326.		157.		11.
						11+

1	CLOCK	ELAPSEB	SIDE 1 BSCAT	SIDE 2 BSCAT	SIDE 1 AER.V	SIDE 2 AER·V	SIDE 1 AER.N	SIDE 2 AER.N	SIDE AER.
,	TIME	TIME	10-4 M-1	10-4 M-1	UM3/CC	UM3/CC	PART/CC	PART/CC	UM2/
D'	/ HR.	(MIM)	MRI-388	MRI-388	TSI-023	TS1-023	TSI-023	TSI-023	TSI-C
									_
1	615	-165		where eacher action access toware artists	-1.	-1.	108.	108.	7
1	735	-85					1.76 107 A 104 100 100		
1	835	-25			4.		1.3E C5		3 <b>3</b> 7
1	845	-15				22.		3.4E 05	
	1005	65	~~~~~		11.	-	1.1E 05		504
	1015	75	gain con rea man este man	~ ~ ~ ~ ~ ~		26.		1.8E 05	
	1105	125			10.		9.2E 04		88
1	1115	135	-			19.	and tells open when some north	1.5E 05	
1	1205	185			11.		7.3E 04		886
1	1215	195				25.		1.1E 05	
1	1305	245			12.		6.5E 04		1084
1	1315	255				25.		9.2E 04	
1	1405	305			21.		5.9E 04		1229
1	1415	315				31.		8.2E 04	~~
1	1505	365			18.		5.6E 04		1141
1	1515	375				26.		7.4E 04	
1	1605	425			17.		4.3E 04		1920
1	1615	435				22.		5.7E 04	***
2	720	1340			~~ ~~ ~~ ~~ ~~				
2	835	1415			*** *** *** *** ***				
2	1005	1505	1.6						~ · · · ·
2	1015	1515		1.2					
2	1105	1565	2.2						
2	1115	1575		1.2				~~~~	
2	1205	1625	2.4						
2		1635		0.9					
2	1305	1685	2.7				~		
2		1695	7'p 100 My 400 M0 M0	0.9			-		
2		1745	2.8					dec and 124 and 400 also	
2		1755		1.1					
	1505	1805	2.2		w m				
	1515	1815		1.3					
-				- · ·					

NO DATA TAKEN

*

SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
AER.N	AER.N	AER.S	AER.S	N-C10	N-C10
PART/CC	PART/CC	UM2/CC	UM2/CC	PPM	P P M
TSI-023	TSI-023	TSI-023	TSI-023	VAR 3700	VAR 3700
108.	108.	7.	7.	name area uses stay and apas	
100 -100 100 100 aus aus		7.		0.1565	
1.3E 05		337.			
	3.4E 05		2206.		0,0272
1.1E 05		504.		0.1457	
	1.8E 05		1809.		
9.2E 04		688.			
	1.5E 05		1600.		0.0271
7.3E 04		886.		C.1438	
	1.1E 05		1685.	~~~~~	
6.5E 04		1084.			
	9.2E 04		1707.		0.0252
5.9E 04		1229.		0.1315	
	8.2E 04		1720.		
5.6E 04		1141.			
	7.4E 04		1578.		0.0235
4.3E 04		1020.		0.1250	
	5.7E 04		1349.		~~~
			mile drip, cape 1,000 may 2,000		0.0187
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				0.1223	0.0107
		***		V+1223	
					0.0594
				0.1158	0+0374
				A+1170	
		~ ~ ~ ~ ~ ~ ~ ~ ~			
					0.0379
					0+03/7
					0.0408
				0.1135	V • V 4 V 8
40-4 000 100 110 out ton				0.1133	

**'**)

AFF- 75 JP-8(SHALE) VERSUS JP-8(PET) 1981, MAY 5,6

CLGCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 N-C11 PPM VAR 3700	SIBE 2 N-C11 PPM VAR 3700	SIDE 1 N-C12 PPM VAR 3700	SIDE 2 N-C12 PPM VAR 3700	SIDE 1 N-C13 PPM VAR 3700	SIDE 2 N-C13 PPM VAR 3700	SID N-C PP VAR
1 735 1 845 1 1005 1 1115 1 1205 1 1315 1 1405 1 1515 1 1605	-85 -15 65 135 185 255 305 375 425	0.1733  0.1656  0.1639  0.1575 	0.0874  0.0888  0.0825 	0.1120 0.1136  0.1136  0.1092  0.1014	0.0930  0.0958  0.0862  0.0789	0.0646  0.0591  0.0600  0.0568 	0.0817  0.0795  0.0730 	0.  0.  0.
2 720 2 835 2 1015 2 1105 2 1215 2 1415 2 1505	1340 1415 1515 1565 1635 1755 1805	0.1406  0.1340  0.1302	0.0561  0.0753  0.0639 0.0501	0.0903  0.0839  0.0806	0.0577  0.0528  0.0485 0.0334	0.0446	0.0465  0.0294  0.0337 0.0193	0.

SIDE 1 N-C13	SIDE 2 N-C13	SIDE 1 N-C14	SIDE 2 N-C14	SIDE 1 124TMEBZ	SIDE 2 124TMEBZ
FFM	PPM	PPM	PPM	PPM	PPM
VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3730
0.0646		0.046	ains often word heat rade draw	0.0322	00° 000 des des des des
	0.0817		0.081		0.0086
0.0591		0.033	*** *** *** ***	0.0277	
	0.0795		0.062		0.0073
0.0600		0.030		0.0250	
	0.0730		0.055		0.0063
0.0568		0,028		0.0220	
	0.0629		0.049		0.0051
0.0534	hand dive about part time species	0.025		0.0192	
	0.0465		0.033	one will can been too ann	0.0047
0.0446		0.024		0.0195	
	0.0294		0.019		0.0102
0.0383		0.015		0.0173	
	0.0337		0.021		0.0065
	0.0193		0.014		0.0058
0.0354		0.015		0.0152	

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 CO PPM BK6800-1	SIDE 2 CO PPM BK6800-1	SIDE 1 PAN PPM ECD-3	SIDE 2 PAN PPM ECD-3	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	S PA PA TS
21 11111	(112/17	2110000 1	ENGOSO I	CCD 3	LOD J	CH	CH	13
1 615	-165	0.62	0.62	0.000	0.000			
1 830	-30					0.008	0.008	
1 835	-25	0.66		0.000				1
1 845	-15		0.70	10c 1cm 50c min page 1000	0.000			•••
1 1005	65 75	0.64		0.001				6
1 1015	75		0.72		0.002			-
1 1105	125	0.63	0.71	0.003			***************************************	2
1 1200	135 180		0./1		0.006	0.040		-
1 1205	185	0.69	*** *** *** *** *** ***			0.012	0,026	
1 1205	195	V+07	0.76	800.0	0.012			6
1 1305	245	0.70	V+/0	0.017	0.012			3
1 1315	255		0,81	0.017	0.019			.s _
1 1405	305	0.74	V+01	0.033	0+017			1
1 1415	315		0.80		0.032			-
1 1505	365	0.74		0.051	V+V32			4
1 1515	375		0.81		0.044			- T
1 1605	425	0.73		0.058				
1 1610	430					0.045	0.039	_
1 1615	435		0.85	distribution was been dest	0.055			-
2 820	1400					0.073	0.070	
2 835	1415	0.80	***************************************	0.035			V+V/V	
2 845	1425		0.83		0.034			
2 1005	1505	0.77						_
2 1015	1515		0.89		0.015			
2 1105	1565	0.85		0.041				-
2 1115	1575		0.92		0.025			
2 1200	1620					0.076	0.073	-
2 1205	1625	0.85		0.042				
2 1215	1635		0.95		0.024			-
2 1305	1685	0.90						
2 1315	1695		0.98		0.012			
2 1405	1745	0.96		0.038				
2 1415	1755		0.94		0.016			•
2 1505	1805	1.04	***************************************	0.040				
2 1510	1810					0.096	0.077	_
2 1515	1815		1.04		0.016			

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o de la

40.0

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DE 2 AN FM D-3	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 PART.024 PART/CC TSI-023	SIBE 1 PART.042 PART/CC TSI-023	SIDE 2 PART.042 PART/CC TSI-023
.000			167.	167.	-348.	-348.
	800.0	800.0	1 15 05	~ ~ ~ ~ ~ ~		
.000	~ ~ ~ ~ ~ ~		1.1E 05	1.3E 05	1.3E 04	4 EC AE
			6.7E 04	1.25 03	3.5E 04	1.5E 05
.002				3.4E 04	3+3L V4	7.5E 04
			2.9E 04		4.3E 04	7.36 07
.006				2.8E 04		4.7E 04
	0.012	0.026				
			6012.		2.9E 04	
.012				50i.		2.8E 04
			3006.		8613.	
.019				167.	-	9657.
			1169.		87.	
.032				167.		1479.
			4342.		696.	
.044				2839.	***	2523.
			835.		174.	
	0.045	0.039				
.055		2 m m m m m		-2672.	ten au 148 up pap un,	1044.
	0.073	0.070	which takes with these spaces spaces.			
.034						
.015				وبيو نبس علمه عدد حدد		
.013						
.025						
	0.076	0.073	No. 100 Per case case case			
	U+U/6	0.073				
.024						
				**** *** *** *** ***		
.012						
				****		~ ~ ~ ~ ~ ~
.016			****			
				-		
	0.096	0,077				
.016	~~~~~		-			

AFF- 75 JP-8(SHALE) VERSUS JP-8(PET) 1981, MAY 5,6

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SI
CLOCK	ELAPSED	PART.075	PART.075	PART.133	PART.133	PART.237	PART,237	PAR
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PAR
DY HR.	(MIM)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI
1 615	-165	٥,	0.	193.	193.	123.	123.	_
1 835	-25	1954.		72.		-12.		
1 845	-15	1/044	6.1E 04	/ <del></del> .	964.		37.	
1 1005	65	6971.	U+1L V-	-96.	7071	37.		
1 1015	75		6.7E 04		1735.		٥,	
1 1105	125	2.0E 04		410.		12.		
1 1115	135		7.2E 04					
1 1205	185	3.7E 04	7 7 Z Z Z Z Y Y	964.		135.		
1 1215	195	D+/L V4	7.7E 04		2868.		37.	
1 1305	245	5.1E 04	7476 04	2265.	20001	٥.		
1 1315	255	011L V7	7.8E 04	22001	4603.		25,	
1 1405	305	5.3E 04	7.02 04	4290.		61.		
1 1415	315	J : () L V 7	7.4E 04	72/01	6145.		25.	
1 1505	365	4.4E 04		6507.		-12.	~~~~	_
1 1515	375		6.1E 04		7905.		49.	
1 1605	425	3.5E 04		6700.	,,,,,,	185.		***
1 1615	435		5.0E 04		8001.		61.	

NOTES

A PROBABLE INTERFERENCE BY FUEL ON OZONE MONITOR.

36

DE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
RT - 133	PART - 237	PART - 237	PART - 422	PART.422	PART - 750	PART.750
kT/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
1-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TS1-023
	,	, , , , , , ,			, 01 010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
93.	123.	123.	-20.	-20.	-7.	-7.
	-12.		47.		0.	
964.		37.		٥.		0.
L	37.		20.		32.	
735.		٥.		0.		25.
	12.		-7.		14.	
				33.		0.
	135.		-60.		7.	
868.		37.		-67.		25.
	0.		80.		-25.	
603.		25.		-13.		11.
	61.		20.		14.	
145.		25.		7.		28.
	-12.		-40.		7.	
905.		49.		67.		-4.
	185.		-13.		٥.	
001.		61.		7.		0.

MONITOR.

UV RAD EPPLEY-2 2.91 0.82 MW/CM2 ID INST. INITIAL UNITS CONC. SIDE 1 NO B-NOX-1 0.292 PPM NO B-NOX-1 0.292 PPM SIDE 2 NO2-UNC B-NOX-1 0.103 PPM SIDE 1 NO2-UNC B-NOX-1 P'P'M SIDE 2 0.101 THC BK6800-1 22.70 PPMC SIDE 1 THC BK6800-1 24.50 PPMC SIDE 2

368

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AFF- 76 JP-8(SHALE) VS JP-4(PET) 1981, MAY 7-8

## INSTRUMENTS USED

SAMPLING RATE (ML/MIN)

			KAIL
ΙD	LABEL	DESCRIPTION	(ML/MIN)
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
1800	DORIC-1	DURIC TEMPERATURE INDICATOR, SN 61479	
4250	BYRON	BYRON 401 HYDROCARBON ANALYZER	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OFTICAL PART, CTR; SN: 76-148	
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN143	
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FII	l
3000	CA	CHROMOTROPIC ACID HOHO ANALYSIS	
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2100	F:N-1	RM-121 POROPAK-N GC; FID	
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	
4000	ECU-3	AF-LAB; 12" 5% CARBOWAX-600 GC; ECD	

370

AFF- 76 JP-8(SHALE) VS JP-4(PET) 1981, MAY 7-8

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 OZONE PPM D-1790	SIDE 2 OZONE FPM D-1790	SIDE 1 NO PPM B-NOX-1	SIDE 2 NO PPM B-NOX-1	SIDE 1 NO2-UNC PPM B-NOX-1	SIDE 2 NO2-UNC FPM B-NOX-1	SI NOX F B-N
1 615	-ja5	0.000	0.000	0.011	0.011	0.003	0.003	0
1 835	-25	0.005 4	}	0.292		0.103		ō
1 845	-15		0.007 4		0.292		0.101	
1 1005	65	0.014		0.178		0.188		0
1 1015	75		0.023		0.107		0.259	
1 1105	125	0.063		0.048	2000 2000 MATE AND ASSESSMENT	0.300		0
1 1115	135		0.144		0.018		0.320	
1 1205	185	0.237		0.012		0.280		0
1 1215	195		0.343		0.012		0.272	
1 1305	245	0.473		0.010		0.191		0
1 1315	255		0.557		0.010		0.208	
1 1405	305	0.609		0.010		0.131	***	0
1 1415	315		0.678		0.011		0.170	
1 1505	365	0.620		0.011		0.103		0
1 1515	375		0.719		0.011		0.140	
1 1605	425	0.602		0.010		0.092		0
1 1615	435		0.698		0.011		0.122	
2 835	1415	0.431		0.012	·····	0.047	**********************	0
2 845	1425		0.516		0.013		0.062	
2 1005	1505	0.406		0.011		0.050		0
2 1015	1515		0.489		0.013		0,070	
2 1105	1565	0.394		0.011	*** *** *** *** ***	0.062		0
2 1115	1575		0.488		0.012		0.077	
2 1205	1625	0.401		0.011		880.0		0
2 1215	1635		0.495		0.015		0.078	
2 1305	1685	0.404		0.015		0.068		0
2 1315	1695		0.503		0.018		0.077	
2 1405	1745	0.419		0.014		0.067	***************************************	0
2 1415	1755		0.504	-	0.018		0.077	
2 1505 2 1515	1805	0.415		0.013	-	0.067		0 -
Z 1313	1815		0.492		0.013		0.074	

2	SIDE 1 NO2-UNC	SIDE 2 NO2-UNC	SIDE 1 NOX-UNC	SIDE 2 NOX-UNC	SIDE 1 THC	SIDE 1 THC
	PPM	PPM	PPM	PFM	PPMC	PPMC
-1	B-NOX-1	B-NOX-1	B-NOX-1	B-N0X-1	BK6300-1	BYRON
11	0.003	0.003	0.012	0.012	0.95	1.75
	0.103		0.400		22.70	12.80
92	_ ~ ~ ~ ~	0.101		0.399		
	0.188		0.377	** ** ** ··· ·	21,90	12.60
07		0.259		0.372		
	0.300		0.343		21.60	12.40
18		0.320		0.329		
	0.280		0.283		20.50	12.10
12		0.272		0.278		
	0.191		0.195		19.10	11.80
10		0.208		0.212		
	0.131	***	0.137		17.90	11.50
11		0.170		0.172	***	
<b>~</b> -	0.103		0.110		17.20	11.20
1 1		0.140		0.146		
	0.092		0.099		17.40	11.20
1 1		0.122		0.130		
<b>L</b> _	0.047		0.053		16.30	10.50
13		0.062		0.071		
	0.050		0.060		16.10	10.40
13		0.070		0.080		
	0.062		0.070		16.60	10.50
12		0.077		0.086		
	860.0		0.073		16.20	10.60
15		0.078		9.088		
	880.0		0.077		16.10	10.40
18		0.077		0.088		
	0.067		0.076		15.90	10.30
18		677		0.088		
	0.067		0.074		15.70	10.10
13		0.074		0.082		

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AFF- 76 JP-8(SHALE) VS JF-4(PET) 1981, MAY 7-8

			SIDE 1	SIDE 2		SIDE 1		SIDE 1	SI
(	CLOCK	ELAPSED	T	T	UV RAD	CONDENS	CONDENS	#PART>.3	#PAI
	TIME	TIME	DEG C	DEG C	MW/CM2	10E3/CC	10EJ/CC	PART/CC	FAR
DY	/ HR.	(MIM)	DORIC-1	DORIC-1	EPPLEY-2	CNC-1.43	CNC-143	CLIMET	CL
1	615	-165	14.2	14.2		0.2	0.2	٥.	
1	835	-25	21.3			32.0		0.	
	845	-15		22.8			0.0		
1	1005	65	27.0		2.82	21.0		0.	
1	1015	75		29.4			42.0		
1	1105	125	29.5		3.73	16.5		0.	
1	1115	135		30.3	3.73		33.0		
1	1205	185	33.3		3.64	13.0		10.	
1	1215	195		33.0	3.55		25.0		
1	1305	245	34.0		3.55	11.0		299.	
1	1315	255		32.0			20.0		
1	1405	305	33.3		2.45	8.2		418,	
1	1415	315		31.1	2.36		15.2		1
1	1505	365	31.2		2.00	6.3	*** *** *** *** ***	429.	
1	1515	375		29.3	1.87		11.7		1
1	1605	425	28.7		1.18	5.0		424.	
1	1615	435		28.0	1.09		9.0		2
	835	1415	20.9			0.0		143.	
2	845	1425		22.6			0.0		
	1005	1505	26.5		3.12	1.5		105.	
	1015	1515		29.5	3.64		0.8		1
	1105	1565	30.3		3.64	1.1		97.	
	1115	1575		30.3	3.64		0.7		1:
	1205	1625	33.5	***	3.55	0.7		204.	
	1215	1635		33.0	3.46		0.5		1:
	1305	1685	34.3		3.28	0.5		270.	
	1315	1695		32.4	2.91		0.3		1
	1405	1745	34.0		2.54	0.3		316.	
	1415	1755		33.0	2.63		0.2	1000 1000 1000 1000 1000 1000	20
	1505	1805	33.8			0.2		316.	***
2	1515	1815		32.6	1.96		0.1		2:

NO DATA TAKEN

	0. 0 0	. 0.
0.2 0.2 0. 0. 0. 2.0 0 0.	v	
2.0 0 0.		
1.0 0 0.	0	
42.0 1	0	•
6.5 0 0.	0	
77.0	0	
3.0 10 0.		
25.0 1	0	V •
1.0 299, 39,	0	
20.0 5	0	V •
8.2 418 193.	8	
15.2 90	0	0.
6.3 429 233.	18	
11.7 185	5	V •
5.0 424 228.	18	
9.0 214	11	0.
70.0 143 15.		,
0.0 89	3	∨ •
1.5 105 45.	•	
7.0	13	0.
12/4	13	0.
0.7 204 51. 0.5 121	1	
0.5 270 75.	20	0.
0.3 160	30	
0.3 316 91.		
0.2 204	37	0.
0.2 316 81.		
0.1 223	40	0.

372

AFF- 76 JP-8(SHALE) VS JP-4(PET) 1981, MAY 7-8

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 BSC::T 10-4 M-1 MRI-388	SIDE 2 BSCAT 10-4 M-1 MRI-388	SIDE 1 AER.V UM3/CC TSI-023	SIDE 2 AER.V UM3/CC TSI-023	SIDE 1 AER.N FART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SID AER UM2 TSI-
1 615	-165	0.0	0.0	4.	4.	-3541.	-3541.	2
1 733	-87		**** **** **** **** ****		757 170 170 170 100 100			***
1 835	-25	0.2		-6.		1.2E 05		27:
1 845	-15		0.2		5.		329.	
1 1005	65	0 • 4		4.		1.0E 05		44:
1 1015	75		0.4		4.		1.8E 05	
1 1105	125	1.0		ዎ•		8.5E 04		76:
1 1115	135		0.8		13.		1.7E 05	
1 1205	185	3.8		13.		7.2E 04		1071
1 1215	195		1.5		13.		1.3E 05	
1 1305	245	13.6		22,		6.8E 04		1354
1 1315	255		2.5		19.		1.05 05	
1 1405	305	20.8	***	20.		6.2E 04		1354
1 1415	315		3.8		21.	*****	8.2E 04	
1 1505	365	21.6		28.		4.8E 04		1234
1 1515	375		4.0		18.		7.0E 04	******
1 1605	425	22.0		16.		4-1E 04		961
1 1615	435		4.1		16.		5.4E 04	
2 735	1355		*** *** *** *** ***			tion after their tips again again		<b></b>
2 835	1415	1.4		2.		745.		48
2 845	1425		0.8	* * * * * * * * * * * * * * * * * * * *	5.		4950.	
2 1005	1505	1.5		4.		8780.		138
2 1015	1515		1.0		-8.		4592.	
2 1105	1565	2.2		1.		8337.	70721	145
2 1115	1575		1.3	~~~~~	4.		5046.	
2 1205	1625	3.0	***	4.		7484.		19₄
2 1215	1635		1.7		-3.	77071	4468.	
2 1305	1685	4.0		5.		6127.		183
2 1315	1695		1.5		3.		3851.	
2 1405	1745	3.7		3.		5082.	20311	133
2 1415	1755		2.0		5.		2481.	15:
2 1505	1805	3.0		4.		3043.	2401+	113
2 1515	1815	**********	1.3		3.		2701.	110
					~ ·		m/U1+	

SIDE 1 AER·N FART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	\$1DE 1 AER.S UM2/CC TSI-023	SIDE 2 AER.S UM2/CC TSI-023	SIDE 2 N-C4 APM DMS-1	SIDE 1 N-C5 PPM DMS-1	SIDE 2 N-C5 PFM DMS-1
-3541.	-3541.	29.	29.	0.0009		
		~~~~			0.0002	
1.2E 05	329.	272.		^ ^^7		0.0444
1.05 05	327.	442.	50.	0.0073		0.0444
1.0% 03	1.8E 05	772+	457.			
8.5E 04	T+0E V3	742.	73/+			
0+5L V4	1.7E 05	7-12+	869.			
7.0E 04		1078.				
/ F.L. VT	1.3E 05		1188.		AND THE TOTAL THE SERVICE.	~~~~~~
6.8E 04		1359.		-		
	1.0E 05		1410.			
6.2E 04		1356.				
	8.2E 04		1406.			
4.8E 04		1234.			0.0004	
	7.0E 04		1258.			
4.1E 04		961.				
part one loss two tree also	5.6E 04		1047.	8800+0		0.0406
	angs were than anys were tipes	* * **			0.0006	
745.		48.				
	4950.		92.	0.0071		0.0402
8780.		138.				
	4592.		-9.			
8337.		149.				
	5046.		119.			
7484.		194.				
	4468.		89.			
6127.		183.				
	3851.		128.			
5082.		133.			0.0008	
	2481.	447	113.			
3043.		113.				
	2701.		78.	0.0071		0.0384

AFF- 76 JF-&(JHALE) VS JP-4(PET) 1981, MAY 7-8

CLOCK TIME	ELAPSED TIME	SIDE 2 N-C6 PPM	SIDE 2 N-C7 PPM	SIDE 2 MECYC-C6 PPM	SIDE 2 N-C8 PPM	SIDE 2 N-C9 PPM	SIDE 1 N-C10 PPM	SII N-(FF
DY HR.	(MIN)	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR
1 733	-87				MAR MIN when Maps again sepa		0.1575	
1 845	-15	0.1000	0.1244	0.0791	0.1098	0.0568		0.0
1 1005 1 1115	65 135	0.0759	0.1160	0.0697	0.1025	0.0534	0.1488	0.(
1 1205	185	V+V/3/	0+110V	V+V077	V+1V23	0.03.57	0.1285	
1 1315	255	0.0937	0.1124	0.0653	0.0980	0.0483		0.0
1 1505	365	-					0.1182	
1 1615	435	0.0923	0.1064	0.0622	0.0976	0.0452	ands appr args total page such	0.0
2 735	1355	स्त्रावर्ग स्थानी तेत्रीय कंपन अत्रत्य अत्रत्य					0.1145	
2 845	1425	0.1032	0.1127	0.0615	0.0933	0.0453).c
2 1005	1505	~					0.1110	
2 1115	1575	0.0918	0.1074	0.0610	0.0923			0.0
2 1205	1625			other than arter than asses there			0.1116	
2 1405	1745					-	0.1066	
2 1515	1815	0.0886	0.0989	0.0547	0.0877	0.0392		0.0

2 18 1 1700	SIDE 2 N-C9 PPM VAR 3700	SIDE 1 N-C10 PPM VAR 3700	SIDE 2 N-C10 PPM VAR 3700	SIDE 1 N-C11 FPM VAR 3700	SIDE 2 N-C11 PPM VAR 3700	SIDE 1 N-C12 PPM VAR 3700	SIDE 2 N-C12 PPM VAR 3700
 198 125 180 	0.0568 0.0534 0.0483 	0.1575 0.1488 0.1285 	0.0374 0.0345 0.0330 	0.1763 0.1695 0.1538 	0.0460 0.0447 0.0418 	0.1215 0.1137 0.1018 0.0924	0.0424 0.0387 0.0371
733 723 727	0.0453	0.1145 0.1110 0.1116 0.1066	0.0295 0.0292 0.0292	0.1354 0.1301 0.1310 0.1269	0.0372	0.0825 0.0819 0.0838 0.0800	0.0310 0.0315 0.0372

AFF- 76 JP-8(SHALE) US JP-4(PET) 1981, MAY 7-8

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 N-C13 FPM VAR 3700	SIDE 2 N-C13 PPM VAR 3700	SIDE 1 N-C14 FPM VAR 3700	SIDE 2 N-C14 PPM VAR 3700	SIDE 2 O-XYL PPM VAR 3700	SIDE 2 M-XYL PPM VAR 3700	SI C2 P VAR
1 733 1 845 1 1005 1 1115 1 1205 1 1315 1 1505 1 1615	-87 -15 -65 135 185 235 365 435	0.0614 0.0559 0.0488 	0.0323 0.0046 0.0272 0.0249	0.024 0.022 0.019 	0.019	0.0170 0.0155 0.0147 	0.0772 0.0681 0.0628 	0.
2 735 2 845 2 1005 2 1115 2 1205 2 1405 2 1515	1355 1425 1505 1575 1625 1745 1815	0.0428 0.0371 0.0418 0.0398	0.0249 0.0227 0.0209	0.030 0.017 0.017 0.018	0.016	0.0157	0.0602 0.0569 0.0496	0.0

E 2 14 M 3700	SIDE 2 O-XYL FPM VAR 3700	SIDE 2 M-XYL FPM VAR 3700	SIDE 2 C2BENZ PPM VAR 3700	SIDE 2 I-C3-BZ FFM VAR 3700	SIDE 2 N-C3-BZ PPM VAR 3700	SIDE 1 124TMEBZ PPM VAR 3700	SIDE 2 124TMEBZ PPM VAR 3700
			حميد منعد عامل ومن بعبد منعي	was man mad was safe and	pers with peak with this will	0.0305	
019	0.0170	0.0772	0.0238	0.0035	0.0040		0.0247
016	0.0155	0.0681	0.0150	0.0034	0.0038	0.0276 0.0230	0.0198
014	0.0147	0.0628	0.0063	0.0036	0.0038	0.0188	0.0160
014	0.0137	0.0586	0.0202	0.0030	0.0036		0.0136
			after risks after stem form			0.0202	
016	0.0157	0.0602	0.0204	0.0039	0.0043	0.0170	0.0138
013	***************************************	0.0569	0.0199				0.0117
		, <u>-</u>				0.0158	,
013	0.0118	0.0496	0.0183	0.0028	0.0032	0.0145	0.0096

AFF- 76 JP-8(SHALE) VS JP-4(PET) 1981, MAY 7-8

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	CO	CO	PAN	PAN	PART.024	PART.024	PART
TIME	TIME	PPM	PPM	PPM	PPM	PART/CC	PART/CC	PART
DY HR.	(MIM)	BK6800-1	BK6800-1	ECD-3	ECD-3	TS1-023	TSI-023	TSI-
1 615	-165	1.05	1.05	0.000	0.000	-4008.	-4008.	52
1 835	-25	1.06		0.000		1.0E 05		1.5
1 845	-15		1.03		0.000		668.	
1 1005	45	1.07		0,002		6.0E 04		3.1
1 1015	75		1.07		0.005	~~~~	1.6E 05	
1 1105	125	1.06		0.008		1.7E 04		4.3
1 1115	135		1.10		0.018		9.0E 04	
1 1205	185	1.11		0.024		3006.		1.7
1 1215	195		1.14		0.035		2.1E 04	
1 1305	245	1.08		0.059		334.		243
1 1315	255		1.19		0.067		5344.	
1 1405	305	1.15		0.105		668.		-52
1 1415	315	-	1.23		0.100		-668.	
1 1505	365	1.20		0.120		-1670.		-95
1 1515	375		1.18		0.144		-501.	
1 1605	425	1.25		0.136		334.		-8
1 1615	435		1.26		0.145		2338.	
2 835	1415	1.27				-334.	****	8
2 845	1425		1.27		0.041		3173.	
2 1005	1505	1.27	name order state about	0.043		334.		365
2 1015	1515		1.24		0.056		501.	-
2 1105	1565	1,35		0.057		-334.		87
2 1115	1575		1.32		0.056		-167.	
2 1205	1625	1,41		0.057		0.		26
2 1215	1635		1.38		0.061		-835.	
2 1305	1685	1.40		0.052		٥.		17
2 1315	1695		1.47		0.045	miss time than their field sales	-334.	
2 1405	1745	1,45		0.050		1002.		8
2 1415	1755		1.60		0.046		-1169.	
2 1505	1805	1.50		0.047		167.		-26
2 1515	1815		1.47		0.039		167.	

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No.

: 2 !	SIDE 1 PART.024	SIDE 2 PART.024	SIDE 1 PART.042	SIDE 2 PART.042	SIDE 1 PART.075	SIDE 2 PART.075
	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	FART/CC
-3	TS1-023	TSI-023	TSI-023	TSI-023	TSI-023	TS1-023
_						
)00	-4008.	-4008.	522.	522.	-89.	-89,
	1.0E 05		1.5E 04		2620.	
000		668.		-174.		133.
	6.0E 04		3.1E 04		8081.	
)05		1.6E 05		1.8E 04		2797.
	1.7E 04		4.3E 04		2.5E 04	
)18		9.0E 04		6.6E 04		1.6E 04
	3006.		1.7E 04		5.0E 04	
035		2.1E 04		6.7E 04		4.1E 04
	334.		2436.		6.1E 04	
067		5344.		3.4E 04		6.3E 04
	668.		-522.		5.5E 04	
100		-668.		1.4E 04		6.6E 04
,	-1670.		-957.	070/	4.3E 04	
144		-501.		9396.	7 40 04	5.8E 04
	334.	2338.	-87.	3045.	3.4E 04	4.3E 04
145		2338.		3045+		4+3E 04
, 	-334.	ones para tival and agen best	87.		622.	
041		3173.		348.		932.
	334.		3654.		4573.	
.056		501.		2088.		1820.
	-334.		870.		7237.	
056		-167.		1305.		3641.
	٥.		261.		6038.	
061		-835.		957.		3774.
	Q.		174.		4618.	
045	****	-334.	~~~	696.	0707	2664.
	1002.	-1169.	87.	^~~~~	2797.	200/
046	167.	-1107+	-261,	87.	1998.	2886.
039	16/+	167.	-201,	0,	1778.	1865.

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AFF- 76 JP-8(SHALE) VS JP-4(PET) 1981, MAY 7-8

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 PART.133 PART/CC TSI-023	SIDE 2 PART.133 PART/CC TSI-023	SIDE 1 PART.237 PART/CC (SI-023	SIDE 2 PART.237 PART/CC TSI-023	SIDE 1 PART.422 PART/CC TSI-023	SIDE 2 PART.422 PART/CC TSI-023	SIDE ? PART.750 PART/CC TSI-023	SIGE 2 FART.75 PART/CC TSI-023
1 615	-165	96.	96.	-123.	-123.	47.	47,	14.	14.
1 835	-25	121.		49.		60.		-49.	
1 845	-15		-578.		246.		20.		14.
1 1005	65	386.		-111.		27.		٥.	
1 1015	75		145.		12.		20.		٥.
1 1105	125	675.		٥.		33.		٥.	
1 1115	135		482.		-12.		-60.	~	39.
1 1205	185	1663.		37.		٥.		-4.	
1 1215	195		819.		111.		-33,		4.
1 1305	245	4145.		86.		20.		7.	
1 1315	255		1663.		-62.		20.		7.
1 1405	305	6965.		98.		-33.		0.	~
1 1415	315		2241.		-148		107.		٥.
1 1505	365	6820.		148.		7.		39.	
1 1515	375		2699.		37.		20.		4.
1 1605	425	6170.		62.		20.		-4.	
1 1615	435		2868.		-12.		7,	~ 	7.
2 835	1415	337.		٥.		33.		0.	
2 845	1425		386.		74.		27+		11.
2 1005	1505	120.		111.		-27.		14.	
2 1015	1515		217.		-12.		20.		~42.
2 1105	1565	554.		49.		-40.		٥.	
2 1115	1575		145.		86+		33.		4.
2 1205	1625	1060.		111.		13.		٥.	
2 1215	1635		458.		86.		60.		-32.
2 1305	1685	1253.		62.		13.		7.	
2 1315	1695		651.		148.		27.		٥.
2 1405	1745	1157.		12.		27.		0.	
2 1415	1755		651.		12.		0.		14.
2 1505	1805	1133.		12.		-20.		14.	
2 1515	1815		699.		-37.		0.		7.

NOTES

A PROBABLE INTERFERENCE BY FUEL COMPONENTS ON OZONE MONITOR.

4200 CNC-143

2200 DMS-1

4000 ECD-3

2100 PN-1

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AFF- 77
JP~4 (PET) VS JP-8 (SHALE)
1981, MAY 12-13
DAY 1
        (MAY 12)
  0445; START FILL. WET: 7.0 PSIG; DRY:0.0 PSIG.
                                                    DEW FT: 7.0C.
                                                                     RH:38%
  0627: INJECTED 4.0 ML NO2
  0629: INJECTED 14.5 ML NO
  0635: DIVIDE BAG
  0644: INJECTED 400 MICROLITERS JF-8(SHALE) INTO SIDE B.
  0701: INJECTED 370 MICROLITERS JP-4(PET) INTO SIDE A.
  0900: UNCOVER BAG (T=0)
  1620: SAMPLING ENDED FOR DAY
  1630: BAG COVERED
DAY 2
        (MAY 13)
  0900: UNCOVERED RAG
  1520: SAMPLING ENDED; RUN OVER.
RESULTS
                       DAY 1
                                            DAY 2
-----
                       ____
                                            ----
AVG.T(DEG.C)
                       30(+-2)
                                            30(+-2)
AVG.UV(MW/CM2)
                       3.0(+-1.0)
                                            3.3(+-0.7)
T=0 AT 900 PST
BAG NO.
          21 USED
  ID
           INST.
                   AVERAGE
                             SITIEV
                                    UNITS
                    VALUE
Т
         DORIC-1
                    27.9
                             5.2
                                      DEG C
                                               SIDE 1
T
                    27.8
                                               SIDE 2
         DORIC-1
                             4.3
                                      DEG C
UV RAD
         EPPLEY-2
                    3.16
                            0.88
                                      MW/CM2
  ID
           INST.
                   INITIAL
                             UNITS
                   CONC.
NO
         B-NOX-1
                              PPM
                                       SIDE 1
                    0.309
NO
         B-NOX-1
                   0.309
                              PPM
                                       SIDE 2
NO2-UNC
         B-N0X-1
                    0.102
                              PPM
                                       SIDE 1
NO2-UNC
         B-NOX-1
                    0.102
                              P.P.M
                                       SIDE 2
THC
         BK6800-1 23.30
                              PPMC
                                       SIDE 1
                                       SIDE 2
THC
         BK6800-1 24.80
                              PPMC
  INSTRUMENTS USED
  II
       LABEL
               DESCRIPTION
 3000 CA
               CHROMOTROPIC ACID HCHO ANALYSIS
 1790 D-1790
               DASIBI 1790 OZONE MONITOR
 4600 B-NOX-1
               BENDIX 81018X NOX ANALYZER; SN300038-2
 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D
 1800 DORIC-1
               DORIC TEMPERATURE INDICATOR, SN 61479
 4300 TSI-023
               TSI ELECTRICAL AEROSOL ANALYZER MD:3030
 4350 CLIMET
               CLIMET 208 OFTICAL PART, CTR; SN:76-148
 4400 MRI-388
               MRI INTEGRATING NEPHELOMETER MD: 1550B
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ENV ONE RICH100 CONDENS NUCLEI CTR; SN143

2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID

RM-121 POROPAK-N GC; FID 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG

RM-121; DIMETHYLSULFOLANE GC; FID

AF-LAB; 12" 5% CARBOWAX-600 GC; ECD

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SIDE 1

		PIRET	SIDE X	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	OZONE	OZONE	NO	ОМ	N02-UNC	%02~UNC	NOX-
TIME	TIME	F F M	PPM	PPM	PPM	PPM	PPM	F P
DY HR.	(MIM)	D~1790	D-1790	B-MOX-1	B-NOX-1	B-NOX-1	B-N0X-1	B-N0
1 605	-175	0.000	0.000	0.000	0.000	0.000	0.000	0.
1 835	-25	0,009 A		0.309		0.102		0.
1 845	-15		0.001	Α	0.309		0.102	-
1 1005	65	0.022		0.162		0.226		0.
1 1015	75		0.020		0.140		0.243	
1 1105	125	0.080		0.033		0.347		٥.
1 1115	135		0.107	and the past past after the	0.018		0.332	
1 1205	185	0.240		0.007	~	0.320		0.
1 1215	195		0.331		0.003		0.266	
1 1305	245	0.445		0.003	~~~~~	0.267		0.
1 1315	255	-	0.560		0.003		0.178	
1 1405	305	0.634	adan sama adan gara sasi) yada	0.004	~~~~	0.209		0.
1 1415	315		0.654		0.007		0.126	
1 1505	365	0.725		0.003	PRO 1000 PAPE 1000 1000 1000	0.159		0.
1 1515	375		0.639		0.008		0.110	
1 1605	425	0.750		0.003		0.142		0.
1 1615	435		0.614		0.006	~	0.106	
2 835	1415	0.539	100 May 000 May 100	0.007		0.062		0.0
2 845	1425		0.449	***	0.007		0.048	
2 1005	1505	0.515		0.008		0.070		0.0
2 1015	1515		0.428		0.006		0.059	
2 1105	1565	0.505		0.005	··· ··· ·· ·· · · · · · ·	0.080		0.9
2 1115	1575	,	0.410		0.009		0.064	
2 1205	1625	0.500	-	0.009		0.083		0.0
2 1215	1635		0.405		0.009		0.069	
2 1305	1685	0.506		0.009		0.088		0.0
2 1315	1695		0.407	~~~~~	0.009	~~~~	0.069	
2 1405	1745	0.513		0.009	~~~~	0.087		0.0
2 1415	1755		0.399	~~~~~	0.009		0.070	
2 1505	1805	0.512	V + O - 7	0.009	0.007	0.083	0.070	
2 1515	1815	~~~~~	0.399	U+UJ7	0.009	0.003	0,070	0.0
	****		V+077		V+V07		0,0/0	

SIDE 2 SIDE 1

SIDE 2

SIDE 1

SIDE 2

SID

---- NO DATA TAKEN

2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
	N02-UNC	M02-UNC	NOX-UNC	NOX-UNC	THC	THC
ı	PPM	PPM	FPM	PPM	PPMC	PPMC
-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	BK6800-1	BK6800-1
00	0.000	0.000	0.000	0.000	0.70	0.70
	0.102		0.419		23.30	
)9		0.102		0.420		24.80
	0.226		0.406		22.70	
10		0.243		0.397		24.00
	0.340		0.369		22.40	
ì 8		0.332		0.342		23.20
	0.320		0.320		21.40	
)3		0.266		0.263		22.00
	0.267		0.262		20,40	
)3		0.178		0.180		20.60
	0.209		0.209		19.50	
)7		0.126		0.129		19.60
	0.169		0.170		19.00	
8(0.110		0.112	-	19.10
	0.142		0.142		18.90	
)6	***	0.106		0.109		19.10
- ,	0.062		840.0		17.80	
)7		0.048		0.050		18.60
	0.070		0.074		18.30	
)6		0.059		0.062		18.40
	0.080		0.982		18.00	
)9	~~	0.064		0.070	*************	18.40
	0.083		0.089		17.80	
)9		0.069	men were take the time	0.072		18.00
	0.088		0.091		17.60	
19		0.069		0.072		17.70
	0.087		0.090		17.40	
19		0.070		0.077		17.60
	0.083		0.090		17.30	
19	and the second and	0.070		0.074		17.70

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AFF- 77 JP-4 (PET) VS JP-8 (SHALE) 1981, MAY 12-13

ELAPSED

(MIM)

TIME

-175

CLOCK

TIME

605

DY HR.

SIDE 1

DEG C

16.0

T

DORIC-1

1 8	335 -	-25	21.4			1.0		O ,, — —	
1 8	345 -	·15	~	22.8			31.0		
1 10	05	65	24.8		2.82	51.0		0	
1 10)15	75		28.0	3.64		20.0		
1 11	105 1	.25	28.5		4.14	34.0		0	
1 11	115 1	.35		29.6	4.09		16.0		
1 12	205 1	85	31.8		3.91	26.0		0, -	
i 12	215 1	.95		30.6	3.87		13.0		5
1 13	305 2	245	33.1		3.73	19.0		0	
1 13	315 2	255		30.7	3.64		10.0		35
1 14	105 3	305	31.9		2.73	15.0		33	
1 14	115 3	315 ·		31,0	2.63		8.2		42
1 15	505 3	865	31.5		2.18	11.3		157	
1 15	515 3	,, ,		29.6	2.09	** ** ** **	7.0		42
1 16	505 4	125	27.5		1.37	8.4		215	
1 16	315 4	35		27.3	1.28		5.0		42
2 8	335 14	115	19.5		**** *** *** *** ***	0.0		95	
2 8	345 i4	25		20.6		2000 made about these prime 1990.	0.0		24
2 10	005 15	05	24.7		2.82	1.2		147	
2 10	15 15	i15 ·		27.0	3.55		0.1		20
2 11	05 15	65	28.5		4.09	0.9		121	
2 11	115 15	i75 ·		29.0	4.14		0.0		17
2 12	205 16	25	30.5		4.05	0.7		95	
2 12	215 16	35		30.5	3.84		0.0		20
2 13	305 1 <i>6</i>	85	33,0		3.73	0.4			
2 13	315 16	95		30.0	3.64		0.1		22
2 14	105 17	45	32.0		3.05	0.2		138	
2 14	15 17	'55 ·		31.3	2.96		0.0		21
2 15	io5 18	05	31.2		2.18	0.2		162	
2 15		45		30.5	0.05		A 4	~~~~	18
£. 14	15 18	315		30+0	2.05		0.1		10

UV RAD

MW/CM2

EPPLEY-2

SIDE 1

CONDENS

10E3/CC

CNC-143

0.0

SIDE 2

CONDENS

10E3/CC

CNC-143

0.0

SIDE 1

#PART>.3

PART/CC

CLIMET

0.

SID

#PAR

PART

CLI

SIDE 2

T

DORIC-1

DEG C

16.0

SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 *PART>.3 PART/CC CLIMET	SIDE 2 \$PART>.3 PART/CC CLIMET	SIDE 1 *PART>.5 PART/CC CLIMET	SIDE 2 *PART>.5 PART/CC CLIMET	SIDE 1 *PART>1 PART/CC CLIMET	SIDE 2 *PART>1 PART/CC CLIMET
0.0	٥.	0.	0.	0.	٥.	٥.
	0.		0.		0.	
31.0		0.		0.		0.
	٥.		0.		0.	
20.0		٥.		0.		٥.
16.0	٥,		٥.	1466 00m nine may non 4600	0.	
16.0	^	0.		0.		0.
13.0	٥,	=	٥.		0.	
13.0	0.	56.	~~~~~	٥.		٥,
10.0		359.	٥.		٥.	
1010	33.	337.	0.	90.		٥.
8.2		424.	0 •	210.	0.	
	157.	747+	3.	210.	0.	11.
7.0		428.		229.	0.	17,
	215.		11.	227+	0.	1/,
5.0		420.		222.		16.
****	95.	140 mar man son take 1930	3.		0.	
0.0		245.		39.		0.
*** *** *** *** ***	147.		11.		0.	· · · · · · · · · · · · · · · · · · ·
0.1		203.		59.		1.
*** *** *** ***	121.		9.		0.	
0.0		172.		105.		2.
	95.		9.		0.	
0.0		204.		117.		3.
	101.		14.		0.	
0.1		221.		106.		4.
	138.		18.		0.	
0.0		211.		90.		4.
0.1	162.	400	19.		0.	~
0 + 1		162.	after these forces where some super-	78.		4.

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380

AFF- 77 JP-4 (PET) VS JP-8 (SHALE) 1981, MAY 12-13

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 BSCAT 10-4 M-1 MRI-388	SIDE 2 DSCAT 10-4 M-1 MRI-388	SIDE 1 AER.V UM3/CC TSI-023	SIDE 2 AER.V UM3/CC TSI-023	SIDE 1 AER.N PART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SIDE AER. UM2/ TSI-0
1 605	-175	0.2	0.2	9.	9.	-2387.	-2387.	64
1 725	·95							
1 835	-25	0.1		1.		250.		9
1 845 1 1005	-15 65	0.3	0.2		1.	4 00 00	1.1E 05	
1 1005	75	V • 4	0.2	4.		1.98 05	4 4	431
1 1105	125	0.3	0.2		6.		1.15 05	
1 1115	135	0.3	0.9	10.	4 4	1.9E 05		803
1 1205	185	1.0	0.7	13.	11.		9.1E 04	
1 1215	195	1.0	4.4	13.		1.4E 05		1101
1 1305	245	2.2		17.	21.		7.6E 04	4747
1 1315	255		9.0	1/+	22.	1.1E 05	7.9E 04	1347
1 1405	305	4.0	7 + 0	21.		8.9E. 04	7.76 04	1431
1 1415	315		11.6	21+	28.	0+7E. V4	7.1E ()4	1431
1 1505	365	6.2		20.		6.9E 04	7115 04	1320
1 1515	375		12.8		24.	0175 04	5.8E 04	1320
1 1605	425	8.0		18,		5.6E 04		1099
1 1615	435		12.8		12.	3+0L V4	4.7E 04	
			1270		12.		4+/C 04	
2 715	1335							
2 835	1415	1.2		5.		487.		69
2 845	1425		1.5		3.		2766.	40 629 849 349
2 1005	1505	1.3		0.		5882.	PAGE 6000 Style 6000 water 1888	71
2 1015	1515		2.0		5.		2122.	
2 1105	1565	1.3		3.		6501.		115
2 1115	1575		1.8		2.	-	2786.	
2 1205	1625	1.8		2.		5569.		121
2 1215	1635		2.0		i +		3245.	
2 1305	1685	1.9		-1.		4390.		86
2 1315	1695		2.1		4.		3062.	
2 1405	1745	2.2		-2.		3846.		74
2 1415	1755		1.8		2.		1306.	
2 1505	1805	2.0		-i.		3103.		58
2 1515	1815		1.7		3.		1705.	

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DE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1
R.N	AER.N	AER.S	AER.S	N-C5	N-C5	N-C9
T/CC	PART/CC	UM2/CC	UM2/CC	PPM	PPM	PPM
-023	TSI-023	TSI-023	TSI-023	DMS-1	D4S-1	VAR 3700
37.	-2387.	64.	64.	alan bank tappe and tappe table	manya danan yang salam salam salam	
				0.0432		0.1025
50.		9.				
	1.1E 05		262.			
9E 05		431.				0.0974
	1.1E 05		571.			
9E 05		803.				
	9.1E 04		941.			
4E 05		1101.				0.0961
	7.6E 04		1314.			
1E 05		1347.				
	7.9E 04		1504.			
9E. 04		1431.				
	7.1E 04		1531.			
9E 04		1320.		0.0401		0.0966
	5.8E 04		1316.			
6E 04		1099.				
	4.7E 04		1028.	air um ais die elle file	0.0003	
				0.0381		0.0856
487.		69.		*** *** *** ***		
	2766.		92.		0.0005	
882.		71.				0.0931
	2122.		87.			
501.		115.				
	2786,		75.			
569.		121.		AND AND AND AND AND THE		0.0966
	3245.		75.			
390.		86,				
	3062.		89.			
346.		74.	000 NO. 100 No. 100	0.0386		0.0864
	1306.		73.			
103.		58.				
	1705.		93.		0.0007	
i						

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AFF- 77 JP-4 (PET) VS JP-8 (SHALE) 1981, MAY 12-13

			SIDE 1	SIDE 1	SIDE 1	SIDE 1	SIDE 1	SIDE 2	SIDE
	CLOCK	ELAPSED	N-C7	MECYC-C6	N-C8	N-C9	N-C10	N-C10	N-C:
	TIME	TIME	PPM	PPM	PPM	PPM	PPM	PPM	144
D	Y HR.	(MIN)	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR (
1	725	-95	0.1253	0.0759	0.1109	0.0630	0.0369	-	0.04
1	845	-15						0.1639	
1	1005	65	0.1212	0.0723	0.1134	0.0558	0.0364	-	0.04
1	1115	135						0.1541	
1	1205	185	0.1230	0.0708	0.1075	0.0510	0.0347		0.04
1	1315	255	-					0.1329	
1	1505	365	0.1177	0.0649	0.0906	0.0464	0.0305		0.03
2	715	1335	0.1069	0.0583	0.0856	0.0957	0.0281		0 + 00
2	845	1425						0.1257	
2	1005	1505	0.1089	0.0600	0.0923	0.0434	0.0281	~ ~ ~ ~ ~ ~	0.00
	1115	1575						0.1239	~~~-
2	1205	1625	0.1136	0.0608	0.0895	0.0438	0.0277		0.00
2	1315	1695						0.1176	
2	1405	1745	0.1104	0.0578	0.0861	0.0427	0.0269		0.00
2	1515	1815				per Con den des Tres sels		0.1173	

1 7 700	SIDE 1 N-C10 PPH VAR 3700	SIDE 2 N-C10 PPM YAR 3700	SIDE 1 N-C11 PPM VAR 3700	SIDE 2 N-C11 PPM VAR 3700	SIDE 1 N-C12 PPM VAR 3700	SIDE 2 N-C12 PPM VAR 3700
30 58 10 64	0.0369 0.0364 0.0347 	0.1639 0.1541 0.1329	0.0470 0.0447 0.0432 0.0367	0.1793 0.1697 0.1533	0.0284 0.0438 0.0394 	0.1262 0.1090 0.0946
57 134 38 427	0.0281 0.0281 0.0277 	0.1257 0.1239 0.1176 	0.0321 0.0369 0.0336 	0.1398 0.1417 0.1323 0.1327	0.0311 0.0327 0.0280 0.0274	0.0831 0.0829 0.0757 0.0781

AFF- 77 JP-4 (PET) VS JP-8 (SHALE) 1981, MAY 12-13

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 N-C13 PPM VAR 3700	SIDE 2 N-C13 PPM VAR 3700	SIDE 1 N-C14 FPM VAR 3700	SIBE 2 N-C14 PFM VAR 3700	SIDE 1 O-XYL PFM VAR 3700	SIDE 1 M-XYL PPM VAR 3700	SIDI C2BI PPI VAR
1 725 1 845 1 1005 1 1115 1 1205 1 1315 1 1505	-95 -15 -65 135 185 255 365	0.0509 0.0285 0.0291 0.0249	0.0558 0.0523 	0.026 0.017 0.015	0.040	0.0215 0.0164 0.0147 0.0124	0.0919 0.0742 0.0679 0.0594	0.01
2 715 2 845 2 1005 2 1115 2 1205 2 1315 2 1405 2 1515	1335 1425 1505 1575 1625 1695 1745 1815	0.0274 0.0218 0.0199 0.0192	0.0378 0.0376 0.0338 	0.027 0.014 0.013 0.013	0.016 0.016 0.015 0.016	0.0162 0.0131 0.0143 0.0143	0.0596 0.0566 0.0558 	0.0

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0E 2 014 0M 03700	SIDE 1 0-XYL PPM VAR 3700	SIDE 1 M-XYL PPM VAR 3700	SIDE 1 C2BENZ PPM VAR 3700	SIDE 1 I-C3-BZ PPM VAR 3700	SIDE 1 N-C3-BZ FFM VAR 3700	SIDE 1 124TMEBZ PPM VAR 3700	SIDE 2 124TMEBZ PFM VAR 3700
.040	0.0215	0.0919	0.0248	0.0028	0.0059	0.0329	0.0350
601	0.0164	0.0742	0.0234	0.0031	0.0038	0.0103	0.0285
021	0.0147	0.0679	0.0146	0.0035	0.0036	0.0200	0.0228
	0.0124	0.0594	0.0203	0.0035	0.0034	0.0143	
.016	0.0162	0.0596	0.0196	0.0072	0.0052	0.0158	0.0197
	0.0131	0.0568	0.0199	0.0032	0.0037	0.0120	0.0177
016	0.0143	0.0558	0.0138	0.0035	0.0042	0.0109	
.015 	0.0143	0.0537	0.0214	0.0034	0.0042	0.0102	0.0159 0.0154

383

AFF- 77 JF-4 (PET) VS JP-8 (SHALE) 1981, MAY 12-13

CLOCK TIME	ELAPSED TIME	SIDE 1 CO PPM	SIDE 2 CO FPM	SIDE 1 PAN PPM	SIDE 2 PAN PPM	SIDE 1 HCHO FPM	SIDE 2 HCHO PPM	SID PART PART
DY HR.	(MIM)	BK6800-1	BK6800-1	ECD-3	ECD-3	CA	CA	TSI-
1 605	-175	0.47	0.47	0.000	0.000			-283
1 810 1 835	-50 -25	0.49		0.000		0.005	0.000	16
1 845	-25 -15	V+47	0.49		0.000			
1 1005	65	0.50		0.004				1.8
1 1015	75		0.46		0.006			
1 1105	125	0.51		0.015				1.2
i 1115	135		0.52		0.023			
1 1200	180	~ ~ ~ ~ ~ ~ ~ ~				0.019	0.020	
1 1205	185	0.51		0.035				3.9
1 1215	195		0.55	4 ma un en au da	0.047			
1 1305	245	0.58		0.052				801
1 1315	255		1.23		0.103			
1 1405	305	0.60		0.100	A 400	~ ~ ~ ~ ~		283
1 1415 1 1505	315 365	0.63	0.62	0.123	0.120			-100
1 1515	305 375	V+03	0.65	0.123	0.154	~~~~		-100
1 1605	425	0.67	V+0J	0.148	V+134	***		-33
1 1610	430	V+07	Mile days start well reads serve	V*140		0.068	0.072	
1 1615	435		0.69		0.143		~~~~~	~~~
			- · · · ·					
2 810	1390					0.106	0.105	
2 835	1415	0,66		0.048				-100
2 845	1425		0.61		0.045			
2 1005	1505	0.71		0.055				217
2 1015	1515		0.68		0.056	-		
2 1105	1565	0.76	A 70	0.070				50
2 1115	1575		0.79		0.066	A AG/		
2 1200	1620	0.76		0.071		0.086	0.101	
2 1205 2 1215	1625 1635	0.76	0.83	0.071	0.067			
2 1215	1685	0.82	V+03	0.070	0.00/			-50
2 1305	1695	V+02	0.88	0.070	0.059			~~~
2 1405	1745	0.85	V+00	0.068	U+U37			16
2 1415	1755		0.92		0.056			~~~
2 1505	1805	0.51		0.063				50
2 1510	1810		can the top pro- jim top			0.093	0.100	
2 1515	1815		0,89		0.059	do		

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E 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
N	нсно	нсно	PART.024	PART.024	PART.042	PART.042
M	PPM	PPM	PART/CC	PART/CC	PART/CC	PART/CC
-3	CA	CA	TSI-023	TSI-023	TSI-023	TSI-023
1						
000			-2839.	-2839.	435.	435.
	0.005	0.000	union colors sound cortex bright			
	~		167.		87.	
000				9.8E 04		8700.
		steen Was some bode state you.	1.8E 05		1.4E 04	
006				6.1E 04		4.3E 04
	have made after the wife with		1.2E 05		5.8E 04	
023				1.1E 04		4.3E 04
	0.019	0.020				the size that size size size
			3.9E C4		7.1E C4	
047				-1336.		1.3E 04
			8016.		4.6E 04	
103				835.	4 05 04	6177.
			2839.	-334.	1.9E 04	
120			-1002.	-334.	6351.	2784.
			-1002+	1002.	0331+	87.
154			-334.	1002+	4524.	0/+
	0.068	0.072	-334+		4024.	
143	0.008	0.072		2839.	~ ~ ~ ~ ~ ~ ~	-1392.
143				2037+		1372+
	0.106	0.105				
			-1002.		87.	
045				0.		696.
			2171.		2001.	
056				-334.		348.
}	~		501.		1740.	
066		-		-167.		261.
	0.086	0.101			~~~~	
	g. 40 m 76 44 Mb		0.	~~~~	348.	
067				334.		522.
			-501.		174.	
059				835.		-174.
ļ			167.		0.	
056				-835.	.,,	٥.
			501.		87.	post annu state state and ages
	0.093	0.100				
059				167.	-	87.

AFF~ 77 JP-4 (PET) VS JP-8 (SHALE) 1981,MAY 12-13

CLOCK TIME	ELAPSED TIME	SIDE 1 PART.075 PART/CC	SIDE 2 PART.075 PART/CC	SIDE 1 PART.133 PART/CC	SIDE 2 PART.133 PART/CC	SIDE 1 PART.237 PART/CC	SIDE 2 PART.237 PART/CC	SII PAR1 PAR1
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-
1 605	-175	178,	178.	-241.	-241.	62.	62.	-2
1 835	-25	-133.	~	169.	~ 1 * 1	-49.		-
1 845	-25 -15		1998.	107+	-169.	7/+	-25.	
1 1005	65	1820	******	-24.		49.		~1
1 (015	75	1020	1.1E 04	# T +	193.		86.	
1 1105	125	1.2E 04		337.		-74.		3
1 1115	135		3.6E 04		723.		25.	
1 1205	185	3,3E 04		747.		-25.		
1 1215	195		6.1E 04	, ,, ,	2193.		49.	
1 1305	245	5.6E 04		1301.		25.		1
1 1315	255		6.8E 04	,	4362.		135.	
1 1405	305	6.4E 04	·	2603.	-700±4	49.		7
1 1415	315	U17L V7	6.1E 04		6941.		74.	
i 1505	365	6.0E 04		3133.	~~~~~	185.		
1 1515	375		5.0E 04	~~~~~	6796.		49.	
1 1605	425	4.8E 04		3412.		25.		2
1 1615	435		3.9E 04		6025.		25.	
2 835	1415	1110.		265.		12.		-
2 845	1425		1332.		747.		-86.	
2 1005	1505	1332.	201 MA DA MA MA TO	313.		12.		ć
2 1015	1515		1465.		675.		-49.	
2 1105	1565	3730.		530.		0.		-
2 1115	1575		2042.		627.		49.	
2 1205	1625	4662.		530.		12.		2
2 1215	1635		1732.		602.		62.	
2 1305	1685	4040.		699.		-25.		2
2 1315	1675	~	1865.		482.		37.	
2 1405	1745	3108.	JPR 448 AVA \$55 AVA 440	482.		74.		4
2 1415	1755		1554.		530.		37.	
2 1505	1805	1998.		602.		-148.		8
2 1515	1815		1021.		193.	man agent field part agent when	148.	

NOTES

A PROBABLE INTERFERENCE BY FUEL ON OZONE MONITOR.

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_			0.7 E.E. 4	0755 0	0 T D C (67 tic 0
2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
133	PART - 237	PART - 237	PART.422	PART 422	PART.750	PART.750
CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
23	T5I-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
•	62.	62.	-27.	-27.	46.	46.
	-49.		7.		4.	
•		-25.		80.		-14.
	49.		-13.		7.	
•		86.		13.		0.
	-74.		33.		14.	***
•		25.	************	0.		4.
	-25.		0.		11.	
•		49.		-7.		18.
	25.		13.		4.	
•		135.		0.		0.
	49.		33.	date park from their days aren	4.	
•		74.		-53.		35.
	185.		7.		4.	
•		49.		٥.		21.
	25.		27.		7.	
•		25.		127.		-42,
	12.		-7.		21.	
•		-86.		80.		-4.
	12.		67.		-14.	
		-49.		0.		18.
***	0.		-7.		7.	
•		49.		-33.		7.
	12.		20.		-4.	
		62.		-7,		0.
	-25.		20.		-18.	
,		37.		7.		11.
	74.		40.		-25.	
•		37.		20.		٥.
	-148.		80.		-18.	
		148.		100.		-11.

vitor.

B-NOX-1

B-NOX-1

BK6800-1 17.50

PK6800-1 24.50

NO2-UNC

NO2-UNC

THC

THC

0.106

0.102

PPM

PFM

PPMC

PPMC

SIDE 1

SIDE 2

SIDE 1

SIDE 2

INSTRUMENTS USED

SAMPLING RATE

			KAIL
ID	LABEL	DESCRIPTION	(ML/MIN)
1790	D-1790	NASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
1800	DCRIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 GC; ECD	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OPTICAL PART, CTR; SN:76-148	
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN143	
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID	t
2200	DMS-1	RM-121; DIMETHYLSULFOLARE GC; FID	
2100	F'N-1	RM-121 POROPAK-N GC; FID	
2920	10'C-600	RM-121; 10' 10% CARBOWAX-600 GC; FID	
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS	
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	

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AFF- 78 JP-8(PET) VERSUS JP-4(PET) 1981, MAY 14-15

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	OZONE	OZONE	NO	NO	NO2-UNC	NO2-UNC	NOX-
TIME	TIME	PPM	PPM	PPM	PFK	PPM	PPM	PP
DY HR.	(MIM)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NO
1 605	-175	0.000	0.000	0.000	0.000	0.000	0.000	0.
1 835	-25	0.016 A		0.292		0.106		٥.
1 845	-15		0.000		0.291		0.102	
1 1005	65	0.020		0.251		0.139		0.
1 1015	75		0.000		0.202		0.179	
1 1105	125	0.025		0.196		0.179		0.
1 1115	135		0.010		0.101		0.268	
1 1205	135	0.026		0.140		0,232		0.
1 1215	195		0.053		0.027	the same with state order	0.336	atry when game
1 1305	245	0.045		0.080		0.274		0.
1 1315	255		0.146		0.006		0.325	
1 1405	305	0.064		0.030		0.312		0.
1 1415	315		0.221		0.002		0.291	
1 1505	365	0.082		0.011	come come to the first office	0.318		0.
1 1515	375	were spire was when when here	0.253		0.001		0.259	
1 1605	425	0.070		0.011		0.306		0.
1 1615	435		0.293		0.001		0.232	
2 835	1415	0.015		0.001		0.161		0.
2 845	1425		0.109		0.001		0.062	
2 1005	1505	0.135		0.003		0.140		0.
2 1015	1515		0.136		0.003		0.070	
2 1105	1565	0.248		0.001		0.119		0.
2 1115	1575		0.174		0.003		0.078	
2 1205	1625	0.366		0.002		0.099		0.
2 1215	1635		0.216		0.003	ماند ومند والله شاه بند. ماند	0.081	
2 1305	1685	0.370		0.000		0.087		0.
2 1315	1695		0.228		0.003		0.081	
2 1405	1745	0.394	8	0.002		0.082		0.
2 1415	1755		0.256	-	0.005		0.085	
2 1505	1805	0.396		0.000		0.082		0.
2 1515	1815		0.272		0.003		0.082	

SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
ND2-UNC	NO2-UNC	NOX-UNC	NOX-UNC	THC	THC
PPM	PPM	PPM	PPM	PPMC	PPMC
B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	BK6800-1	BK6800-1
0.000	0.000	0.000	0.000	0.77	0.77
0.106		0.401		17.50	
	0.102		0.400		24.50
0.139		0.399		16.90	
	0.179		0.396		23.90
0.179		0.387		17.00	
	0.268		0.377		23.80
0.232		0.380		17.30	
	0.336		0.358		23.70
0.274		0.358		17.50	~
	0.325		0.323		22.90
0.312		0.335		16.70	
	0.291		0.290		22.50
0.318		0.322		16.50	
	0.259		0.258		21.90
0.306		0.311		16.70	
	0.232		0.230		22.30
0.161		0.160		15.80	
	0.062		0.063		21.80
0.140		0.141		15.30	
	0.070		0.071		21.30
0.119		0,118		14.60	
	0.078		0.079		21.50
0.099		0.097		14.20	
	0.081		0.082		20.80
0.087		0.087		13.80	
	0.081		0.082		20.90
0.082		0.083		14.20	
	0.085		0.088		20.70
0.082		0.083		13.20	
	0.082	************	0.088		20.30

AFF- 78 JP-8(PET) VERSUS JP-4(PET) 1981, MAY 14-15

		SIDE 1	CIBE 5		pri, su pri, pro			
CLOCK	ELAPSED	ATTIF 1	SIDE 2 T	1111 545	SIDE 1	SIDE 2	SIDE 1	SI
TIME	TIME	DEG C	DEG C	UV RAD	CONDENS	CONDENS	#PART>.3	#PA
DY HR.	(MIM)	DORIC-1	DORIC-1	MW/CM2 EPPLEY-2	10E3/CC	10E3/CC	PART/CC	PAR
21 11111	(11214)	DOKIC-I	DOVIC-I	EFFLET-2	CNC-143	CNC-143	CLIMET	CL
1 605	-175	15.6	15.6		0.0	0.0	0.	
1 835	-25	17.9			33.0		0.	
1 845	-15		17.6			0.0		
1 1005	65	21.3		2.05	19.0		0.	****
1 1015	75		22.4	2.36		41.5	~~~~~	
1 1105	125	22.2		1.82	14.0		0.	
1 1115	135		22.6	2.18		27.0		
1 1205	185	23.7		2.18	10.0		0,	
1 1215	195		23.2	1.96		18.0		
1 1305	245	25.8		2.79	8.2		0.	
1 1315	255		25.0	2.36		13.7		
1 1405	305	23.1		1.32	6.0		5.	*** *** *
1 1415	315		22.3	1.14		10.0		
1 1505	365	21.8		0.86	4.5		50.	
1 1515	375	~	20.9	0.80		7.7		
1 1605	425	21.0		1.28	3.8		118.	
1 1615	435		20.6	1.14		6.3		
2 835	1415	18.1			0.0		186.	
2 845	1425		17.6			0.2		ė
2 1005	1505	22.0		2.63	2.2		187.	
2 1015	1515		23.5	3.73		0.2		17
2 1105	1565	22.9		3.59	2.1		299.	
2 1115	1575		25.0	4.15		0.8		16
2 1205	1625	24.5	***************************************	2.09	1.4		392.	
2 1215	1635		23.1	1.18		0.6		12
2 1305	1685	22.3		2.18	0.9		388.	
2 1315	1695		23.4	2.18		0,5		11
2 1405	1745	25.6		3.32	0.7		393.	
2 1415	1755		25.5	2.82		0.3		12
2 1505		24.9	the sea set the pro-	2.41	0 (4		413.	
2 1515	1815		24.3	2.23		0.2		13

----- NO DATA TAKEN

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74.0

SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 #PART>.3 FART/CC CLIMET	SIDE 2 #PART>.3 PART/CC CLIMET	SIDE 1 *PART>.5 PART/CC CLIMET	SIDE 2 *PART>.5 PART/CC CLIMET	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 #PART>1 PART/CC CLIMET
0.0 0.0 41.5 27.0	0. 0. 0. 	0. 0. 	0. 0. 	0.	0. 0. 0. 	0. 0.
18.0 13.7 10.0 	0. 5. 118.	0. 1. 2.	0. 0. 	0. 0. 	0. 0. 	0. 0.
0.2	186. 187. 	6. 65. 179.	144. 48. 	1.	0. 1. 	o.
0.8 0.6 0.5 	392. 388. 393.	164. 129. 111. 	195. 197. 197.	14. 14. 14. 14. 18.	15.	0. 0.
0.2	413.	139.	158.	18.	13.	0.

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	10-4 M-1	SIDE 2 BSCAT 10-4 M-1	SIDE 1 AER.V UM3/CC	SIDE 2 AER.V UM3/CC	SIDE 1 AER.N PART/CC	SIDE 2 AER·N PART/CC	SII AEF UM2
יאח וע	(HIM)	MRI-388	MRI-388	TSI-023	TSI-023	ES0-18T	TSI-023	TSI-
1 605	-175	0.0	0.0	8.	8.	-575.	-575.	4
1 725	-95							
1 835	-25	0.0		1.		1.2E 05		28
1 845	-15		0.0		-0.		811.	~~ ~~ ~
1 1005	65	0.0		3.		9.8E 04		32
1 1015	75		0.0	~	2.		1.1E 05	
1 1105	125	0.1		5.		7.7E 04		42
1 1115	135		0.1		7.		1.2E 05	
1 1205	185	0.3		7.	** ** ** ** **	5.7E 04		49
1 1215	195		0.3		6.	*** *** *** *** ***	1.0E 05	
1 1305	245	0.8		3.		4.3E 04		52
1 1315	255	*** *** *** ***	0.5		7.		7.0E 04	
1 1405	305	2.5		9.		3.4F 04		60
1 1415	315		8.0	~ ~ ~ ~ ~ ~ ~ ~ ~	7.		5.2E 04	
1 1505	365	3.2		10.		3.0E 04		56
1 1515	375		1.2		8.		4.1E 04	
1 1605	425	4.3		7•		2.3E 04		48
1 1615	435	*** *** *** *** ***	1.2		8,		2.8E 04	
2 730	1350							
2 835	1415	1.5		3.		2274.		క
2 845	1425		0.5		5.		816.	
2 1005	1505	3.3		5.		1.4E 04		26
2 1015	1515		0.8		2.		3751.	
2 1105	1565	7.5		8.		1.5E 04		37
2 1115	1575		0.9		1.		4137.	
2 1205	1625	12.0		7.		1.1E 04		35
2 1215	1635		0.9		-0.		5182.	
2 1305	1685	11.2		6.		1.5E 04		30
2 1315	1695		1. • 1		0.		4816.	
2 1405	1745	9.5		5.		7465		22
2 1415	1755	~ ~	1.0	** ** ** ** **	-i.		3850.	
2 1505	1805	7.0		3.	***************************************	4114.		15
2 1515	1815		1.0		-2.		3441.	

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SIDE 1 AER·N PART/CC TSI-023	SIBE 2 AER.N PART/CC TSI-023	SIDE 1 AER.S UM2/CC TSI-023	SIDE 2 AER.S UM2/CC TSI-023	SIDE 1 N-C4 PPM DMS-1	SIDE 2 N-C4 PPM DMS-1
-575. 	-575.	49.	49.	0.0009	0.0009
9.8E 04	811. 1.1E 05	338.	-8. 219.	0.001*	100 000 100 000 000 000 000 000 000 000
7.7E 04 5.7E 04	1.2E 05 1.0E 05	429, 490,	387. 	400 400 400 400 400 400 400 400 400 400	
4.3E 04 3.4E 04	7.0E 04 5.2E 04	600.	584. 632.		and the same that the case the case that the case that the case that the case that the
3.0E 04 2.3E 04	4.1E 04 2.8E 04	565. 482. 	609.	0.0015	0.0071
2274.	816.	67,	71.	0.0017	0.0071
1.4E 04 1.5E 04	3751.	266. 370.	55. 		THE THE AND UP THE CASE THE THE THE THE THE THE
1.1E 04	5 82. 	301.	79. 86.	the rate tipe the r to	
7465.	3850. 	228, 156,	76. 40.	0.0017	0.0071

AFF- 78 JP-8(PET) VERSUS JP-4(PET) 1981, MAY 14-15

CLO		ELAPSED	SIDE 1 N-C5	SIPE 2 N-C5	SIDE 2 N-C6	SIDE 2 N-C7	SIDE 2 MECYC-C6	N-C8	1 2 1
TJ		TIME	PPM	ppm	PPM	PPM	PPM	PPM	F
DY H	R.	(MIN)	DMS-1	DMS-1	VAR 3700	VAR 3700	YAR 3700	VAR 3700	VAR
1 60	05	-175			which are which which maps also	parts that does how that many		part and suffer only doing again.	
1 73	25	-95		0.0437	0.1046	0.1287	0.0787	0.1200	٥.
1 8	35	-25	0.0006						
1 10	15	75			0.1039	0.1274	0.0781	0.1183	O,
1 11	05	125		THY 400 AND 67% WILL 1655		** ** ** ** **			~ ~
1 12:	15	195			0.1063	0.1238	0.0736	0.1049	٥.
1 130	05	245						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	» ···
1 14:	15	315	-		0.1011	0.1232	0.0733	0.1046	٥.
1 150	05	365	0.0006	with table toda abou bout salah		44 cm 450 th 44, 44,			
1 16:	15	435		0.0427	0.0978	0.1153	0.0693	0.1002	0.
2 7	30	1350	0.0007	And here have mad dies, same		MART SIGN LIVE MARK MADE AFFA			** **
2 94	45	1425		0.0422	0.1001	0.1212	0.0723	0.1061	٥.
2 100	05	1505							
2 11:	15	1575		~~ ~~ ~~ ~~ ~~	0.0930	0.1162	0.0670	0.0982	٥.
2 120	05	1625							
2 13:	15	1695			0.0924	0.1112	0.0648	0.0956	٥.
2 140	05	1745	0.0008			~~~~~			
2 15:	15	1815	** ** ** ** **	0.0410	0.0916	0.1073	0.0640	0.0947	٥.

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DE 2 -C7 FM 3700	SIDE 2 MECYC-C6 PPM VAR 3700	SIDE 2 N~C8 PPM VAR 3700	SIDE 2 N-C9 PPM VAR 3700	SIDE 1 N-C10 PPM VAR 3700	SIDE 2 N-C10 PPM VAR 3700	SIDE 1 N-C11 PPM VAR 3700	SIDE 2 N-C11 PPM VAR 3700
			along days, arigo read spine with				
1237	0.0797	0.1200	0.0611		0.0369		0.0413
	~ ~ ~ ~ ~ ~			0.0245		0.0795	
1274	0.0781	0.1183	0.0559		0.0351		0.0416
				0.0231		0.0754	
1238	0.0736	0.1049	0.0533		0.0333		0.0393
	~~~~			0.0234		0.0798	
1232	0.0733	0.1046	0.0530		0.0329		0.0392
1 A	~~~~			0.0229		0.0725	
1153	0.0693	0.1002	0.0503	den ber 100 oper ville self	0.0313	· · · · ·	0.0375
			has been safe one both other	0.0217		0.0672	
1212	0.0723	0.1061	0.0519		0.0325	~~~~~	0.0394
,	0,0725		~~~~	0.0219		0.0678	
-	0.0670	0.0982	0.0482		0.0297		0.0358
1162	V105/0	~~~~~		0.0214		9.0667	
+ 4 + -3	0.0648	0.0956	0.0473	~	0.0292		0.0345
.1112	V.V070	~~~~~~~		0.0208		0.0646	
1073	0.0640	0.0947	0.0464	year that the age and the	0.0284		0.0348

AFF- 78 JP-8(PET) VERSUS JP-4(PET) 1981, MAY 14-15

CLOCK TIME DY HR.	FLAPSED TIME (MIN)	SIDE 1 N-C12 FPM VAR 3700	SIDE 2 N-C12 PPM VAR 3700	SIDE 1 N-C13 PPM VAR 3700	SIDE 2 N-C13 PPM VAR 3700	SIDE 1 N-C14 PPM VAR 3700	SIDE 2 N-C14 PPM VAR 3700	SIDE O-X) PPh VAR 3
1 725 1 835 1 1015 1 1105 1 1215 1 1305 1 1415 1 1505 1 1615	-95 -25 -25 125 195 245 315 365 435	0.0759 0.0743  0.0775 	0.0318  0.0415  0.0345  0.0355	0.0598 0.0363 0.0629 0.0516	0.0228  0.0277  0.0252  0.0278 	0.052 0.047 0.050 0.007	0.015  0.019  0.017  0.019	0.01
2 730 2 845 2 1005 2 1115 2 1205 2 1315 2 1405 2 1515	1350 1425 1505 1575 1625 1695 1745 1815	0.0673 0.0696  0.0634 0.0584	0.0322 0.0309 0.0287	0.0564 0.0516 0.0470 0.0411	0.0243  0.0233  0.0221 	0.010 0.043 0.035 0.028	0.018  0.018  0.015	0.0:

---- NO DATA TAKEN

391

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2 13 H 3700	SIDE 1 N-C14 PPM VAR 3700	SIDE 2 N-C14 PPM VAR 3700	SIDE 2 O-XYL PPM VAR 3700	SIDE 2 M-XYL PPM VAR 3700	SIDE 2 C2BENZ PPM VAR 3700	SIDE 2 I-C3-BZ PPM VAR 3700	SIDE 2 N-C3-BZ PPM VAR 3700
228		0.015	0.0190	0.0804	0.0254	0.0039	0.0047
 277	0.052	0.019	0.0140	0.0730	0.0214	0.0035	0.0039
252	0.047	0.017	0.0161	0.0718	0.0155	0.0034	0.0038
 2 <i>1</i> 8	0.050	0.019	0.0157	0.0705	0.0157	0.0035	0.0036
 250	0.007	0.017	0.0150	0.0673	0.0150	0.0031	0.0036
 243	0.010	0.018	0.0168	0.0697	0.0226	0.0036	0.0040
233	0.043	0.018	0.0151	0.0631	0.0145	0.0035	0.0038
221	0.035	0.015	0.0149	0.0620	0.0147	0.0031	0.0038
210	0.028	0.013	0.0145	0.0603	0.0225	0.0035	0.0040

AFF- 78 JP-8(PET) VERSUS JP-4(PET) 1981, MAY 14-15

CLOCK	ELAPSED TIME	SIDE 1 124TMEBZ PPM	SIDE 2 124TMEBZ PPM	SIDE 1 CO PPM	SIDE 2 CO PPM	SIDE 1 PAN PPM	SIDE 2 Pan PPM	SIM HCI PPI
TIME DY HR.	(MIN)	VAR 3700	VAR 3700	BK6800-1	BK6800-1	ECD-3	ECD-3	Cı
1 605	-175		and the state print state and	0.53	0.53	0.000	0.000	-
	-1/J -95	700 day and 100 day	0.0247	0.33	0.00			
1 725 1 810	-50		0.0247					0.(
1 835	-30 -25	0.0073		0.52		0.000		
1 845	-15	V+VV/J		V+02	0.55		0.000	
1 1005	65			0.59		0.000		
1 1015	75		0.0225		0.72		0.001	
1 1104	124	0.0064			anne agen que serie delle bess			
1 1105	125			0.57		0.001		
1 1115	135				0.56		0.005	
1 1200	180							9.0
1 1205	185			1.93		0.002		
1 1215	195		0.0198		0.59		0.013	
1 1305	245	0.0060		0.60		0.006	Mar hear sans sales was	
1 1315	255		**** *** *** *** ***		0.55		0.024	
1 1405	305			0.63		0.011		
1 1415	315		0.0182		0.56		0.035	
1 1505	365	0.0057		0.60		0.016		
1 1515	375				0.60		0.044	
1 1605	425		tion from after from 1866 Miles	0.59		0.019		^ /
1 1610	430						0.054	0.(
1 1615	435		0.0168	~~~~~~	0.61		0+034	
2 730	1350	0.0059						
2 810	1390							0.0
2 835	1415			0.62		0.021		
2 845	1425		0.0173		0.53		0.056	
2 1005	1505	0.0057	~ * * * * * * * *	0.64		0.029		
2 1015	1515				0.65		0.063	
2 1105	1565			0.66		0.042		~~~
2 1115	1575		0.0144		0.70		0.073	~ ~ ~ ~
2 1200	1620		~~~~~~~			~ ~ ~ ~ ~		0.0
2 1205	1625	0.0049	NO 000 TO LOT 100 LOT	0.70		0.040	0.070	
2 1215	1635				0.70	A A ( A	0.069	
2 1303	1685	***************************************	0.0474	0.98	A 70	0.062	A 074	
2 1315	1695	0 0045	0.0134		0.72	^ ^7A	0.076	
2 1405	1745	0.0045		0.68	A 07	0.074	0.079	
2 1415	1755				0.97		0.079	
2 1505	1805			0.75		0.085		0.0
2 1510	1810				0.77		0.083	
2 1515	1815		0.0129		V+//		A+A03	

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SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
PAN	PAN	нсно	нсно	PART 024	PART.024
F'F'M	PPM	PPM	PPM	PART/CC	PART/CC
ECD-3	ECD-3	CA	CA	TSI-023	TSI-023
0.000	0.000			-334.	-334.
		0.006	0.000		
0.000				1.0E 05	
	0.000				334.
0.000				7.1E 04	
	0.001				1.0E 05
0.001				3.7E 04	
	0.006				1.0E 05
		0.004	0.017	Here differ back doubt dollar	
0.002		unio tilla ulta tarip besti sarri		1.3E 04	ands that the cast must have
	0.013			The district rate day plan	5.4E 04
0.006				2672.	
	0.024				1.6E 04
0.011				167.	
	0.035				2338.
0.016				668.	
	0.044				2171.
0.019	~~~~			334.	
		0.021	0.038	~~~~~	
	0.054				-2839.
		0.027	0.037	~~~~	
0.021				167.	
	0.056				-668.
0.029				٥.	
	0.063				1169.
0.042				-167.	
	0.073				167.
		0.033	0.044	-	
0.040				-1336.	
	0.069				1002.
0.062				1670.	
	0.076	~~~~~			1336.
0.074				1670.	
	0.079			~ ~ ~ ~ ~ ~	167.
0.085				-835.	
		0.058	0.058		
	0.083			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1002.

AFF- 78 JP-8(PET) VERSUS JP-4(PET) 1981, MAY 14-15

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Sì
CLOCK	ELAPSED	PART.042	PART+042	PART.075	PART.075	PART.133	PART.133	PAF
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	FAF
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI
1 605	-175	-348.	-348.	178.	178.	-72.	-72+	
1 835	-25	1.3E 04		2353.		-24.		1
1 845	-15		522.		44.		٥.	
1 1005	65	2.2E 04		4484.		145.		
1 1015	75	reds draw tree and death man	4089.		577.	400 for our test total tree	48.	
1 1105	125	3.1E 04		9235.		265.		
1 1115	135		1.9E 04		3552.		٥.	~ ~
1 1205	185	2.7E 04		1.6E 04		337.		
1 1215	195		3.6E 04		8969.		121.	~-
1 1305	245	1.6E 04		2.3E 04		888.		
1 1315	255		3.5E 04		1.9E 04		337.	
1 1405	305	5394.		2.7E 04		1422.		-
1 1415	315		2.2E 04		2.6E 04		795.	
1 1505	365	2784.		2.5E 04		1542.		
1 1515	375		1.1E 04		2.7E 04		916.	
1 1605	425	696.	750 tale 250 tale may may	2.0E 04		1976.		
1 1615	435		5307.		2.5E 04		1301.	
2 835	1415	348.		1199.		578.		
2 845	1425		-522.		1687.		313.	
2 1005	1505	3045.		9990.		988.		
2 1015	1515		522.		1954.		96+	
2 1105	1565	261.		1.2E 04		2265.		
2 1115	1575		1131.		2442.		337.	
2 1205	1625	87.		9013.		3109.		
2 1215	1635		435.		3108.		651.	
2 1305	1685	174.		6083.		3229.		
2 1315	1695		-174.		3197.	* • • • • • • • • • • • • • • • • • • •	361.	
2 1405	1745	-957.	allow dealer part from miles from	4085.		2675.		
2 1415	1755		87.		2975.		554.	
2 1505	1805	435.		2753.		1735.		
2 1515	1815		-348.		2309.		506.	<b></b>

---- NO DATA TAKEN

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t						
2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
075	PART.133	PART.133	PART.237	PART.237	PART 422	PART.422
CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
23	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
}						
,	-72,	-72.	ο.	0.	-40.	-40.
<b></b>	-24.		111.		-47.	~ ~ ~ ~ ~
١.		0.		-86.		-7.
}	145.		٥.		-7.	
·  ·		48.		0.		٥.
	265,		12.		20.	
,		٥.		-25.		13.
l.	337.	~ ~ ~ ~ ~ ~	12.		0.	
		121.		12.		40.
	888,		37.		-33.	
04		337.		37.		7.
}	1422.		-37.		27.	
04		795.		0.		-7.
f	1542.		37.		13.	
04		916.		25.		13.
	1976.		37.		0.	
04		1301.		-49.		13.
	578.		-12+		-20.	
<b>?</b> •		313.		25.		-47.
<b>}</b>	988.		25.		0.	
,		96.		0.	-	7.
	2265.	~~~~	62.		0.	
<u>۴</u> ۰		337.		86.		-27.
	3109.		61.		20.	
β. 		651.		0.		-7.
<u> </u>	3229.		٥.		7.	
γ.	~	361.		86.		20.
[ <del></del>	2675.	Ann 100 to 100 to 00	-25.		13.	
•		554.		74.		7.
 >.	1735.		12.		13.	
٠.		506.		12.		-33.

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AFF- 78 JP-8(PET) VERSUS JP-4(PET) 1981, MAY 14-15

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 PART.750 PART/CC TSI-023	SIDE 2 PART.750 PART/CC TSI-023
1 605	-175	42.	42,
1 835	-25	0.	
1 845	-15		4.
1 1005	65	4.	
1 1015	75		4.
1 1105	125	0.	
1 1115	135		21.
1 1205	185	7.	
i 1215	195		4.
1 1305	245	-11.	
1 1315	255	***	0.
1 1405	305	0.	
1 1415	315		0.
1 1505	365	7,	
1 1515	375		0.
1 1605	425	0.	
1 1615	435		4.
2 835	1415	14.	
2 845	1425		28.
2 1005	1505	7.	
2 1015	1515		4.
2 1105	1565	11.	
2 1115	1575		٥.
2 1205	1625	0.	
2 1215	1635		-7.
2 1305	1685	4.	
2 1315	1695		-i1.
2 835 2 845 2 1005 2 1015 2 1105 2 1115 2 1205 2 1215 2 1305 2 1315 2 1405 2 1415 2 1505	1745	4.	
2 1415	1755		-14.
	1805	0.	
2 1515	1815	*** *** *** *** ***	-7.

---- NO DATA TAKEN

NOTES

A PROBABLE INTERFERENCE BY FUEL ON OZONE MONITOR.

PPM

PPH

PPMC

PPMC

NO2-UNC

NO2-UNC

THC

THC

\$

B-NOX-1 0.091

B-NOX-1 0.091

BK6800-1 21.70

BK6800-1 19.30

SIDE 1

SIDE 2

SIDE 1

SIDE 2

AFF- 79 JP-4(PET) VS JP-8(PET) 1981, MAY 19-20

INS	TRUMENTS (	JSED	SAMPLING RATE
ID	LABEL	DESCRIPTION	(ML/MIN)
1790	II-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 GC; ECD	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OFTICAL FART, CTR; SN: 76-148	
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN143	3
2100	FN-1	RM-121 POROPAK-N GC; FID	
2920	10'C-600	RM-121; 10' 10% CARBOWAX-600 GC; FID	
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FII	I
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS	
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	

AFF- 79 JP-4(PET) VS JP-8(PET) 1981, MAY 19-20

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SI
CLOCK	ELAPSED	OZONE	OZONE	NO STRE I	NO NO	NO2-UNC	NO2-UNC	NOX
TIME	TIME	PPM	PPM	PPM	PPM	PPM	PPM	P
DY HR.	(MIN)	D-1790	0-1790	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	B-N
2-1 11114	(1141()	D 1770	D 1//0	D NOX 1	D NON I	Z NON Z	r non 1	- ···
1 615	-165	0.000	0.000	0.006	0.006	0.000	0.000	0
1 835	-25	0.006 A		0.278		0.091		0
1 845	-15		0.016	Α	0.279		0.091	
1 1005	65	0.007		0.248		0.112		0
1 1015	75		0.017		0.242		0.122	
1 1105	125	0.008		0.195		0.161		O
1 1115	135		0.022		0.211		0.137	
1 1205	185	0.026		0.091		0.250		0
1 1215	195		0.026		0.137		0.202	
1 1305	245	0.091		0.031		0.295		0
1 1315	255		0.052		0.060		0.271	
1 1405	305	0.208		0.012		0.281		0
1 1415	315		0.112		0.019		0.290	
1 1505	365	0.328		0.009		0.246		0
1 1515	375		0.195		0.011	~~~~~	0.260	
1 1605	425	0.415		0.000		0.209		0
1 1615	435		0.252		0.009		0.222	
2 835	1415	0.211		0.007		0.063		0
2 845	1425		0.074		0.009		0.039	
2 1005	1505	0.209		0.008		0.069		0
2 1015	1515		0.106		0.011		0.052	
2 1105	1565	0.222		0.009		0.073		0
2 1115	1575		0.136		0.012		0.055	
2 1205	1625	0.254		0.009		0.078		0
2 1215	1635	*****	0.169		0.013		0.063	
2 1305	1685	0.272		0.010		0.085		0
2 1315	1695		0.200		0.014		0.067	
2 1405	1745	0.302		0.011		0.087		ø
2 1415	1755		0.220		0.014		0.070	
2 1505	1805	0.302		0.010		0.090		0
2 1515	1815		0.217		0.015		0.071	

NO DATA TAKEN

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DE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
VO.	NO2-UNC	NO2-UNC	NOX-UNC	NOX-UNC	THC	THC
M	FFM	PPM	PPM	PPM	PPMC	PPMC
DX-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	BK6800-1	BK6800-1
006	0.000	0.000	0.008	0.008	0.72	0.72
	0.091		0.370		21.70	
.279		0.091		0.368		19.30
	0.112		0.366		21.50	
.242		0.122		0.367		18.80
	0.161	and our now that the same	0.360		21.60	
.211		0.137		0.357		19.30
	0.250		0.341		21.10	
.137		0.202		0.342		19.00
	0.295		0.317		20.90	
.060		0.271		0.324		18.20
	0.281		0.282		20.40	
.019		0.290		0.297		17.70
	0.246		0.244		19.70	
.011		0.260		0.260		17.40
	0.209		0.210		19.10	
.009		0.222		0.225		17.20
	0.063		0.068		18.70	
.009		0.039		0.049		16.50
	0.069	***	0.072		18.60	
.011		0.052		0.060		16.30
	0.073		0.080		18.40	
.012		0.055		0.067		16.10
	0.078		0.086		18.40	
.013		0.063		0.073		16.10
	0.085		0.090		18.20	
.014		0.067		0.077		15.70
	0.087		0.092		18.00	
.014		0.070		0.081		15.80
	0.090		0.096		17.90	
.015		0.071		0.081		15.50

AFF- 79 JP-4(PET) VS JP-8(PET) 1981, MAY 19-20

		SIDE 1	SIDE 2		SIDE 1	SIDE 2	SIDE 1 *PART>.3	SI *PA
CLOCK	ELAPSED		<u>T</u>	UV RAD	CONDENS	CONDENS	PART/CC	FAR
TIME	TIME	DEG C		MW/CM2	10E3/CC		CLIMET	CL
DY HR.	(MIM)	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC-143	CLIME	U L
1 615	-165	16.1	16.1		0.0	0.0	0.	
1 835	-25	19.1			0.6		٥.	
1 845	-15		19.8			28.0	-	
1 1005	65	19.2		1.82	40.0		٥.	****
1 1015	75		21.0	1.46		17.0		
1 1105	125	19.2		1.37	27.0		0.	
1 1115	135		20.1	1.91		12.0	-	
1 1205	185	22.4		2.27	20.0		0.	
1 1215	195		23.7	2.00		9.8		
1 1305	245	26.0		3.91	14.3		0.	
1 1315	255		25.8	2.73		6.8		
1 1405	305	27.1		2.73	10.8		٥.	
1 1415	315		26.9	2.54		4.5		
1 1505	365	24.8		2.54	8.5		1.	
1 1515	375		28.0	2.38		3.6		2
1 1605	425	22.9		1.44	7.2		33.	
1 1615	435		24.1	1.18		2.6		2
					۸. ۵	4 H H H H H H H	48.	
2 835	1415	15.9			0.2	0.0	70+	
2 845	1425		16.4				77.	
2 1005	1505	20.9	an my me me me	3.46	2.7	10.2		
2 1015	1515		22.5	2.73		10.2	58.	***
2 1105	1565	21.4		1.82	2.2	8.4	70+	
2 1115	1575		23.9	2.73	1.3	8 • 4	41.	
2 1205	1625	24.7		3.46	1.3	5.7	71.	
2 1215	1635		26.0	3.00		J+/	40.	
2 1305		24.0		2.73	0.6		40.	
2 1315			26.3	2.91		3,4	82.	
2 1405		25.0		2.32	0.4		82.	
2 1415			27.5	2.80		1.8		
2 1505		22.8		1.09	0.3		105.	
2 1515	1815		24.1	1.05		1.3		•

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BIDE 2 DNDENS DE3/CC NC-143	SIDE 1 #PART>.3 PART/CC CLIMET	SIDE 2 #PART>.3 PART/CC CLIMET	SIDE 1 *PART>.5 PART/CC CLIMET	SIDE 2 #PART>.5 PART/CC CLIMET	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 #PART>1 PART/CC CLIMET	
0.0	o. o.	0.	0.	0.	0.	0.	
28.0		0.	0.	0.	0.	0.	
17.0	0. 0.	0.		0.	0.	0 .	
12.0		0.	0.	0.	0.	0.	
9.8		0.	<del>-</del>	0.	0.	0.	
6.8		0.	<del>-</del>	0.	0.	0.	
4.5	1.	62.	0.	0.	0.	0.	
3.6	33.	271.	0.	35.	0.	0.	
2,6		356.		116.		2.	
0.0	48.	72.	1. 3.	32.	0. 0.	0.	
10.2	77.  58.	43.	2.	37.		0.	
8 • 4	41.	45.	2.	26.	0.	0.	
5.7	40.	144.	3,	19.	0.	0.	
3.4	82.	274.	5.	42.	0.	0.	
1.8	105.	320.	6.	77.	0.	1.	
1.3		316.		81.	year wind some year while fide	1.	

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CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 85CAT 10-4 M-1 MRI-388	SIDE 2 BSCAT 10-4 M-1 MRI-388	SIDE 1 AER.V UM3/CC TS1-023	SIDE 2 AER.V UM3/CC TSI-023	SIDE 1 AER.N PART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SI AE UM TSI
1 610 1 615	-170	0.2	# # # # # # # # # # # # # # # # # # #	400 0000 0000 UGG 4.10 4.10	due has no air bet wa	and other code code code		
1 725	-165 -95	0 + 2	0.2	1 .	1.	784.	784.	
1 835	-25	0.0	No. 100 and 100 and	-0.	AND THE DO NOT HOW HE	370.		
1 845	-15		0.0		2,	@/V+	1.0E 05	
1 1005	45	0.0	ner has ent une principal	2,	aller of	2.55 04		
1 1015	75		0.0		2.		8.4E 04	
1 1105	125	0.0		i.		8.8E 04		1
i 1115	135		0.0	*** *** *** *** ***	3.		7.2E 04	W/1 (B)
1 1205	185	0.0	bend taken 1862 keran proper yang	3.		1.1E 05		3
1 1215	195		0.1		7.		5.3E 04	
1 1305	245	0.1	Depth state with trace state	<b>ኇ</b> •	~ ~ -	8.3E 04		5
1 1315	255	~~ ~~ ~~ ~~ ~~ ~~	0.3	and the sales and and an array of	10.		3.8E 04	
1 1405	305	1.0		10.		6.1E 04	This salls sale sale sale sale	6
1 1415	315		1.3	· * * * * · · ·	<b>ኇ</b> ,		2.8E 04	To -
1 1505	365	2.2		10.		5.0E 04	***************************************	7
1 1515	375	ober then then admit offen pass	4.2		10.		2.6E 04	<b></b>
1 1605	425	3.8		9.		4.2E 04		ტ'
1 1615	435	down their met, during stage appe	5.5		11.	with the set she the two	2.3E 04	
2 720	1340					Annual sector sector destro sector		
2 835	1415	0.2		-1.		1850.		
2 845	1425		0.3		5.		-461.	
2 1005	1505	0.3		1.	APE (PER SEA FEM APE APE	1.2E 04	this from dath after these work	•
2 1015	1515		1.1		9.	con com reda tama (file) com	4.9E 04	
2 1105	1565	0 + 4		7.		1.1E 04		11
2 1115	1575		2.5		13.	and the rest has self the	4.3E 04	
2 1205	1625	1.0		4.		1.0E 04		14
2 1215	1635		3.2		20.		3.5E 04	······································
2 1305	1685	1.2		5.		6673.	-	1 (
2 1315	1695		4.0		10.		2.6E 04	
2 1405	1745	1.5	670 FF1 400 AND WAL AND	3.		5150.		1;
2 1415	1755		4.0		8.		1.8E 04	~-·
2 1505	1805	1.7		4.		3638.		1:
2 1515	1815		2.7		12.		1.3E 04	

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SIDE 1 AER.N PART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SIDE 1 AER.S UM2/CC TSI-023	SIDE 2 AER.S UM2/CC TSI-023	SIDE 1 METHANE PPM BK6800-1	SIDE 1 N-C5 PPM DMS-1	SIDE 2 N-C5 PPM DMS-1
784.	784.	20.	20.	1.45		0.0005
370.	1.0E 05	4,	274.	1.40	0.0379	
2.3E 04	8.4E 04	60,	262.	1.38	this char and the are the	
8.8E 04		190.		1.38	***************************************	
1.1E 05	7.2E 04	360.	293.	1.38	the ent of the star out	and the side that the side
8.3E 04	5.3E 04	527.	446.	1.39	the case are the asset was	
6.1E 04	3.8E 04	683.	529.	1.37	and the sint the pire too	poor many days dame come unique
5.0E 04	2.8E 04	713.	563.	1.39	0.0362	allel aller salls alles alle and
4.2E 04	2.6E 04	697.	561.	1,39		
	2.3E 04		524.			note west slight from some recen
1850.		12.	1007 1007 1070 1000 4400 1000 1007 1007 1007 1077 1077 1077	1.42	0.0344	
1.2E 04	-461.	75.	78.	1.38		
1.1E 04	4.9E 04	187.	643.	1.38	the time time and all the	and the the fire the the
1.0E 04	4.3E 04	169.	783.	1.41	the type and they say that	
6673.	3.5E 04	169.	745.	1.44	tre that the the time the	pain out you take top does
5150.	2.6E 04	138.	572.	1.42	0.0350	the same over their time over
3638.	1.8E 04	110,	439.	1.42	Note and date the cost disk	
** ** ***	1.3E 04		373.			0.0010

AFF- 79 JP-4(PET) VS JP-8(PET) 1981, MAY 19-20

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	PPM	SIDE 1 N-C7 PPM VAR 3700	SIDE 1 MECYC-C6 PPM VAR 3700	F F M	SIDE 1 N-C9 PPM VAR 3700	PPM	SII N-C PF VAR
1 725	-95							0.0
1 835	-25	0.1005	0.1258	0.0722	0.1043	0.0552	0.0323	
1 1015	75							0.0
1 1105	125	0.0883	0.1111	0.0663	0.0971	0.0489	0.0303	
1 1215	195							0.0
1 1305	245	0.0881	0.1107	0.0669	0.0969	0.0487	0.0299	
1 1415	315						WEST TOPS AND SEED SEED TOPS	0.0
1 1505	365	0.0850	0.1036	0.0617	0.0892	0.0452	0.0275	
1 1615	435					ative arts as a affect than been		0.0
2 720	1340	0.0849	0.0980	0.0577	0.0836	0.0699	0.0272	
2 845	1425							0.0
2 1005	1505	0.0846	0.1037	0.0605	0.0896	0.0446	0.0271	
2 1115	1575						~ ~ ~ ~ ~ ~	0.0
2 1205	1625	0.0826	0.1032	0.0584	0.0868	0.0436	0.0260	
2 1315	1695	~						0.0
2 1405	1745	0.0946	0.1126	0.0596	0.0888	0.0435	0.0257	
2 1515	1815							0.0

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1	SIDE 1 N-C9 FFM VAR 3700	SIDE 1 N-C10 PPM VAR 3700	SIDE 2 N-C10 PPM VAR 3700	SIDE 1 N-C11 PPM VAR 3700	SIDE 2 N-C11 PPM VAR 3700	SIDE 1 N-C12 PPM VAR 3700	SIDE 2 N-C12 PFM VAR 3700
			0.0261	مين بين مين	0.0807	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0732
43	0.0552	0.0323		0.0386		0.0367	0.0824
			0.0260		0.0853	A A790	0.0024
71	0.0489	0.0303		0.0359		0.0328	0.0723
			0.0242		0.0755	0.0704	0,0723
69	0.0487	0.0299		0.0357	A A 3 A 4	0.0324	0.0703
			0.0240		0.0741	0.0271	
92	0.0452	0.0275 	0.0235	0.0317	0.0721	U+U2/1	0.0701
• /	0.0699	0.0272		0.0318		0.0320	And the time time time and
36 	0.0077		0.0233		0.0709		0.0621
96	0.0446	0.0271		0.0323		0.0376	
70			0.0219		0.0660		0.0586
68	0.0436	0.0260		0.0309		0.0261	A AECC
			0.0219		0.0666		0.0589
88	0.0435	0.0257		0.0308		0.0265	
	V.0100		0.0214		0.0651		0.0572

AFF- 79 JP-4(PET) VS JP-8(PET) 1981, MAY 19-20

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIBE 1 N-C13 PPM VAR 3700	SIDE 2 N-C13 PPM VAR 3700	SIBE 1 N-C14 PPM VAR 3700	SIBE 2 N-C14 PPM VAR 3700	SIBE 1 G-XYL PPH VAR 3700	SIDE 1 M-XYL PPM VAR 3700	S1DE C2BE PFI VAR
1 725 1 835 1 1015 1 1105 1 1215 1 1305 1 1415 1 1505 1 1615	-95 -25 75 125 195 245 315 365 435	0.0329 0.0253  0.0253 	0.0552  0.0627  0.0559  0.0540 	0.024 0.023 0.019 0.015	0.008  0.010  0.010  0.009	0.0175  0.0150  0.0150 	0.0724 0.0669 0.0661 0.0609	0.01
2 720 2 845 2 1005 2 1115 2 1205 2 1315 2 1405 2 1515	1340 1425 1505 1575 1625 1695 1745 1815	0.0326  0.0215  0.0206 	0,0426  0,0440  0,0429 	0.024  0.017  0.015 	0.029  0.036  0.031 	0.0169  0.0155  0.0146 	0.0598  0.0592  0.0563 	0.0

---- NO DATA TAKEN

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SIDE 1 O-XYL PPM VAR 3700	SIDE 1 M-XYL PPM VAR 3700	SIDE 1 C2BENZ PPM VAR 3700	SIDE 1 I-C3-BZ PPM VAR 3700	SIDE 1 N-C3-BZ PPM VAR 3700	SIDE 1 124TMEBZ PPM VAR 3700	SIDE 2 124TMEBZ PPM VAR 3700
				0.0077	0.0226	0.0095
0.0175	0.0724		0.0030	0.0037		0.0081
0.0150	0.0669	0.0144	0.0029	0.0033	0.0198	0.0067
0.0150	0.0661	0.0148	0.0029	0.0033	0.0182	0.0064
0.0142	0.0609	0.0140	0.0026	0.0033	0.0147	0.0059
0.0169	0.0598	0.0136	0.0049	0.0051	0.0148	0.0062
0.0155	0.0592	0.0140	0.0034	0.0038	0.0136	0.0052
0.0146	0.0563	0.0131	0.0031	0.0037	0.0120	0.0049
0.0141	0.0559	0.0142	0.0033	0.0036	0.0111	0.0046
	0-XYL FPM VAR 3700 0.0175 0.0150 0.0142 0.0169 0.0155 0.0146	0-XYL PPM PPM PPM VAR 3700  0.0175 0.0724  0.0150 0.0669  0.0150 0.0661  0.0142 0.0609  0.0169 0.0598  0.0155 0.0592  0.0146 0.0563	0-XYL M-XYL C2BENZ PFM PPM PFM VAR 3700 VAR 3700 VAR 3700 0.0175 0.0724 0.0226 0.0150 0.0669 0.0144 0.0150 0.0661 0.0148 0.0142 0.0609 0.0140 0.0169 0.0598 0.0136 0.0155 0.0592 0.0140 0.0146 0.0563 0.0131	0-XYL PPM PPM PPM PPM PPM PPM PPM PPM PPM PP	0-XYL M-XYL C2BENZ I-C3-BZ N-C3-BZ PFM	O-XYL M-XYL C2BENZ I-C3-BZ N-C3-BZ PPM PPM PPM PPM PPM VAR 3700 VA

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AFF- 79 JP-4(PET) VS JF-8(PET) 1981, MAY 19-20

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 CO PPM BK6800-1	SIDE 2 CO PPM BK6800-1	SIDE 1 PAN PPM	SIDE 2 PAN PPM	SIDE 1 HCHO PPM	SIDE 2 HCHO PPM	SII PART PART
D1 1111.1	(11114)	DV-0000-1	BK9900-1	ECD-3	ECD-3	CA	CA	TSI-
1 615	-165	0.43	0.43	0 000	0 000			
1 810	-163 -50	V+43	0.43	0.000	0.000	0.000		183
1 835	-25	0.47		0.000		0.000	0.000	
1 845	-15		0.46		0.000			-00
1 1005	65	0.45		0.000				2.4
1 1015	75		0.46		0.000			·- ·-
1 1105	125	0,44		0.001				8.4
1 1115	135		0.46		0.000		***	
1 1200	180	-		-		0.009	0.002	
1 1205	185	0.42		0.004				8.1
1 1215	195		0.46		0.003			
1 1305	245	0.47		0.012			***	3.1
1 1315	255		0.47		0.008			
1 1405	305	0.50	~~~~~	0.024	~~~~~~	able that wise your park own		501
1 1415	315		0.50		0.016			~ ~ ~
1 1505 1 1515	365 775	0.49	0.52	0.036		with wife with wise days with		250
1 1605	375 425	0.53	0.52		0.028			
1 1610	430	V+33		0.045		^ ^7/		167
1 1615	435		0.52		0.035	0.036	0.025	
1 1015	455		0.75		0.033			100 FOUR DAY
2 810	1390			*** 470	-	0.051	0.038	
2 835	1415	0.53		0.037		Para data bila apar pina rela		133
2 845	1425		0.48		0.031			
2 1005	1505	0.48		0.043				751
2 1015	1515	*** *** *** *** ***	0.54		0.039		~~ ~ ~ ~ ~	
2 1105	1565	0.54	-	0.047			THE SASE WHILE HAVE AND THE	
2 1115	1575		0.56		0.045			
2 1200	1620					0.049	0.046	
2 1205 2 1215	1625	0.55		0.049				66
	1635		0.58	^ ^==	0.042			
2 1305 2 1315	1685 1695	0.63	A / 2	0.053			*** *** *** *** ***	-16
2 1313	1745	0.62	0.62	0 054	0.050		-	
2 1415	1755	0.02	0.66	0.056				16
2 1505	1805	0.65	V.60	0.065	0.048			
2 1510	1810	V+0J		0.000		0.070	0.060	-50
2 1515	1815		0.60		0.058	U+V/U	0.000	
	~~~		V • U V	· · ·	V+V30			

----- NO DATA TAKEN

IE 2 AN IM I-3	SIME 1 HCHO PPM CA	SIDE 2 HCHO FPM CA	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 PART.024 PART/CC TSI-023	SIDE 1 PART.042 PART/CC TSI-023	SIDE 2 PART.042 PART/CC TSI-023
000	منظر منيات عليك عالي يدني يتنا	and 400 that 500 the	1837.	1837.	-1218.	-1218.
	0.000	0.000				
			-868.		870.	4 45 64
000			2.4E 04	9.0E 04	522.	1.1E 04
000			2.46 04	6.4E 04	J&& •	1.6E 04
			8.4E 04	0176 77	3828.	7.00.07
.000		MA 100 000 000 700 000		4.5E 04		2.3E 04
	0.009	0.002				note that man title took again
			8.1E 04		2.4E 04	
003				1.2E 04		2.9E 04
			3.1E U4		4.0E 04	
, 008				835.		1.55 04
	When worth history bypes arming spirite	dage day, dağa tegin dala teleb	5010.		3.0E 04	top top year one year was
016				-3674.		3915.
000			2505.		1.4E 04	609.
028		~~~~~	1670.	334.	5655.	007.
	0.036	0.025	10/0:		J0J3+	are 55 also 912 e/a 444
.035				1503.		-309.
	0.051	0.038				
			1336.		-174.	
.031				-1336.		174.
			7515.		3132.	
.039		***************	man man again trans main design	1336.		2.0E 04
			0.		4785.	
.045				-167.		6264.
	0.049	0.046		man and any are toke over	3219.	
.042			668.	668.	3217.	1914.
			-167.	000+	696.	1714.
.050			-10/4	334.		435.
			167.		٥.	
.048	The last sale from tall sale			835.		-261.
	and that they have you think		-501.		174.	
	0.070	0.060				
.058				334.		348.

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AUF- 79 JP-4(PET) VS JP-8(PET) 1981, MAY 19-20

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 PART.075 PART/CC TSI-023	SIDE 2 PART.075 PART/CC TSI-023	SIDE 1 PART.133 PART/CC TSI-023	SIDE 2 PART.133 PART/CC TSI-023	SIDE 1 PART.237 PART/CC TSI-023	SIDE 2 PART.237 PART/CC TSI-023	SI PAR PAR TSI
1 615 1 835 1 845 1 1005 1 1015	-165 -25 -15 -65 75	-222. 222. 178.	-222. 1909. 	337. -72. -96.	337. 145. 265.	49. 25. 25.	49. 37. 	1 1
1 1105 1 1115 1 1205	125 135 185	622. 4262.	4706.	121.	72.	37.	-49.	
1 1215 1 1305 1 1315 1 1405	195 245 255 305	1.1E 04 	1.2E 04 2.1E 04	169.	482.	12.	0.	
1 1415 1 1505 1 1515	315 365 375	3.3E 04	2.7E 04 2.4E 04	795.	1060. 1856.	0.	12.	
1 1605 1 1615 2 835	425 435 1415	3.3E 04 	1.9E 04	1229. 	2723.	12.	111.	
2 845 2 1005 2 1015	1425 1505 1515	1243.	311. 2.7E 04	289.	265. 651.	37.	62. 12.	
2 1105 2 1115 2 1205 2 1215	1565 1575 1625 1635	6438.	3.6E 04	313. 265.	1518.	-74. 98.	-12.	
2 1305 2 1315 2 1405	1385 1695 1745	5594. 4573.	2.3E 04	458. 193.	2627.	62. 197.	25.	
2 1415 2 1505 2 1515	1755 1805 1815	3508.	1.5E 04 9724.	410.	2675. 2675.	37.	85. 37.	

---- NO DATA TAKEN

HOTES

A PROBABLE INTERFERENCE BY FUEL ON OZONE MONITOR.

£ 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
133	PART.237	PART - 237	PART.422	PART.422	PART.750	PART.750
/cc	PART/CC	PART/CC	FART/CC	PART/CC	PART/CC	PARTZOC
023	TSI-023	TSI-023	TSI-023	TSI-023	T3I-023	TSI-023
}						
Þ.	49,	49.	0.	0.	¢.	٥.
	25.		~7.		0.	
ნ.		37.		13.		٥.
 5.	25.		0.		7.	
		-37.		-7.		0.
	0.		7.		0.	
2.		-49.		13.		٥,
	37.		٥.		٥.	
2.	****	-49.		27.		7.
	12.		7.		18.	
0.		٥.		27.		14.
ļ	62,		7.		11.	
િ.		12.		7.		7.
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6.	_ ~ ~ ~ ~ ~	٥.		53.		4.
	12.		0.		0.	
3.		111.		٥,		11.
[86.		-20.		-4.	
5.		62.		53.		11.
	37.		٥.		٥.	
\ \ 1 \ .		12.		20.		4.
	-74.		-13.		28.	
8.		-12.		53.		4.
	98.		-7.		7.	~ ~ ~ ~ ~ ~
77.		-37,		13.		49.
	62.	*** *** *** *** ***	20.		11.	
27.		25.		20.		4.
<u> </u>	197.		20.		0.	
75.		86.		フ・		4.
	37.	~ ~ ~ ~ ~ ~	0.		11.	
þ5.		37.		-33.		35.

ONITOR.

```
DAY 1
        (MAY 21)
 0445: START FILL. WET: 7.0, DRY: 0.0, DEW PT.=6.1, R.H.=40%
  0600: END FILL
  0615: INJECTED 770 MICROLITERS JP-8 (SHALE) INTO BAG. 2 MIN.
        N2 ONLY, THEN HEAT AT 250 DEGREES C FOR 30 MIN.
  0650: MIX BAG.
  0655: DIVIDE BAG
  0704: 2.5 ML. NO2 INJECTED INTO SIDE A.
  0706: 9.0 ML. NO INJECTED INTO SIDE A.
  0716: 1.25 ML. NO2 INJECTED INTO SIDE B.
  0718: 4.5 ML. NO INJECTED INTO SIDE B.
  0720: MIX SIDES A AND B.
  0900: UNCOVER BAG (T=0).
  0910: WEATHER: HOT AND SUNNY.
  1620; END SAMPLING, DAY 1
  1630: COVER BAG.
PAY 2 (MAY 22)
  0900: UNCOVER BAG
  1520: RUN OVER.
RESULTS
                      DAY 1
                                          DAY 2
                      ....
                      28(4-3)
AVG.T(DEG.C)
                                           30(+-3)
AVG.UV(MW/CM2)
                      3.2(+-1.1)
                                           3.0(1-0.6)
T=0 AT 900 PST
BAG NO.
         21 USED
                  AVERAGE SASEV UNITS
  ID
           INST.
                   VALUE
         DORIC-1
                   27.0
                            5.9
                                      DEG C
                                              SIDE 1
T
                             5.0
                                      DEG C
                                              SIDE 2
         DORIC-1
                   26.7
T
                                     MW/CM2
UV RAD
         EPPLEY-2
                   3.10
                           0.90
  ID
           INST.
                  INITIAL
                            UNITS
                   CONC.
                              FPM
                                      SIDE 1
NO
         B-NOX-1
                   0.360
NO
         B-NOX-1
                   0.178
                             PPM
                                      SIDE 2
                              PPM
                                      SIDE 1
NO2-UNC
         B-NOX-1
                   0.140
                                      SIDE 2
                              PPM
NO2-UNC
         B--NOX-1
                   0.069
                                      SIDE 1
         BK6300-1 22.00
                              PPMC
THC
                              PPMC
                                      SIDE 2
THC
         BK6800-1 22,70
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AFF- 80 JP8-SHALE/VARIABLE NOX 1981 MAY 21,22

INSTRUMENTS L	JSED	SAMPLING RATE
ID LABEL	DESCRIPTION	(ML/MIN)
1790 D-1790	DASIBI 1790 OZONE MCNITOR	
4600 B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850 BK6300~1	BECKMAN CO, HC ANALYZER SN:100015D	
1800 DORIC-1	DORIC TEMPERATURE INDICATOR. SN 61479	
4000 ECD-3	AF-LAB; 12" 5% CARROWAX-600 GC; ECD	
4300 TSI-023	TSI ELECTRICAL AEROSUL ANALYZER MD:3030	
4350 CLIMET	CLIMET 208 OFFICAL PART, CTR; SN:76-148	
4400 MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200 CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN14	3
2200 DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	-
2100 PN-1	RM-121 POROPAK-N GC; FID	
2920 10'C-600	RM-121; 10' 10% CARBOWAX-600 GC; FID	
2650 VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP, GC; FI	D
3000 CA	CHROMOTROPIC ACID KCHO ANALYSIS	
4131 EPPLEY-2	EPPLEY 14290 UV RADIOMETER: UNDER BAG	

AFF- 80 JP8-SHALE/VARIABLE NOX 1981 MAY 21,22

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SII
CLOCK	ELAPSED	OZONE	OZONE	NO	NO	NOZ -UNC	N02-UNC	ИОХ- 217
TIME	TIME	PPM	PPM	PPM	P P M	PFM	PPM	P.F.
DY HR.	(MIN)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	B-N(
				D NON 1	D HOX I	D MOV-T	D-MOV-1	D-14(
1 605	-175	0.000	0.000	0.006	0.006	0.000	0.000	٥.
1 835	-25	0.010 A		0.360		0.140		ŏ.
1 845	-15		0.004 4	4	0.178		0.069	
1 1005	65	0.019		0.232		0.232		٥.
1 1015	75		0.036		0.049		0.177	
1 1105	125	0.041		0.090		0.353		٥,
1 1115	135		0.175	*** *** *** *** ***	0.007		0.178	
1 1205	185	0.149		0.013		0.387		0.
1 1215	195		0.338		0.006		0.129	
1 1305	245	0.353		0.007		0.321		0.
1 1315	255		0.476		0.007		0.092	
1 1405	305	0.551		0.007		0.235		٥,
1 1415	315		0.487		0.006		0.081	
1 1505	365	0.652		0.005		0.169		٥.
1 1515	375		0.481		0.009	~~~~~	0.080	
1 1605	425	0.660		0.005		0.132		٥,
1 1615	435		0.460		0.008		0,079	
							0 7 0 7 7	
2 835	1415	0.445		0.010		0.063		٥.
2 845	1425		0.338		0.010		0.042	
2 1005	1505	0.443		0.009		0.071		٥.
2 1015	1515		0.313		0.010		0.051	
2 1105	1565	0.430		0.009		0.079		٥.
2 1115	1575		0.312		0.010		0.059	
2 1205	1625	0.431		0.010		0.083		٥.
2 1215	1635		0.318		0.010		0.060	
2 1305	1685	0.442		0.010		0.084		٥.
2 1315	1695		0.326		0.010		0.062	
2 1405	1745	0.452		0.011		0,087		0.
2 1415	1755		0.327		0.010		0.062	
2 1505	1805	0.455		0.010		0.087		0,
2 1515	1815		0.323		0.011		0.064	

NO DATA TAKEN

SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
402-UNC	M02-UMC	NOX-UNC	40X-NMC	THC	THC
P P M	PPM	P P M	P'P'M	FFMC	FFMC
B-NOX-1	B-NOX-1	B-N0X-1	B-NOX-1	BK6800-1	BK4800-1
0.000	0.000	0,008	0.008	0.78	0.78
0.140		0.505		22.00	
	0.069		0.242		22.70
0.232		0.479		21.50	
	0.177		0.221		22.40
0.353		0.444		21.20	
	0.178		0.180		21.40
0.387		0.388		20.40	
	0.129		0.130		20.10
0.321		0.315		19.30	
	0.092		0.096		19.90
0.235		0.232		17.70	
	0.081		0.088		19.00
0.169		0.169		17.10	
	0.080		0.084		18.80
0.132		0.135		16.70	
	0.079		0.082		18.70
0.063		0.071	APR 4504 SAME DOM 5400 SAME	16.20	
0+000	0.042		0.051		18.30
0.071		0.073		15.60	
	0.051		0.049		18.10
0.079		0.083		15.60	
	0.059		0.063		17.50
0.083		0.089		15.30	
	0.060		0.068		17.40
0.084		0.090		15.40	
	0.062		0.070		17.60
0.087		0.092		14.90	
	0.062		0.070		17.50
0.087		0.090		14.90	
	0.064		0.071		17.10

AFF- 80 JP8-SHALE/VARIABLE NOX 1981 MAY 21,22

		SIDE 1	SIDE 2		SIDE 1	SIDE 2	SIDE i	SI
CLOCK	ELAPSED		T	UV RAD	CONDENS	CONDENS	#PART>.3	#PAI
TIME	TIME	DEG C	DEG C	MW/CM2	10E3/CC	10E3/CC	PART/CC	FAR"
DY HR.	(MIM)	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC-143	CLIMET	CL
1 605	-175	12.2	12.2		0.0	0.0	0.	
1 835	-25	18,8			17.0		ō.	
1 845	-15		21.2		-	16.0	~ ~ ~ ~ ~ ~ ~ ~	
1 1005	65	23.0		3.73	14.0		0.	HO 1/4 1
1 1015	75	~~~~	26.6	4.07		13.5		
1 1105	125	27.8		4.32	12.0	-	٥,	
1 1115	135		27.8	4.32		12.0		
1 1205	185	30.3		4.05	10.0		16.	~
1 1215	195		29.0	4.00		9.5		20
1 1305	245	31.6		3.82	8.7		290.	
1 1315	255		30.0	3.69		8.1		37
1 1405	305	32.2		2.91	6 • 8		418.	
1 1415	315		29.9	3.05	***	6.1		39
1 1505	365	30.3		2+27	5.3	w	444.	
1 1515	375		28.2	2.09	~ ~ ~ ~ ~ ~	4 • 4		39
1 1605	425	25.8		1.23	3.9		445.	na
1 1615	435	*** *** *** *** ***	25.5	1.14	Marin speed prices status hydrog digits	3.1		37
2 835	1415	20.7			0.1		137.	
2 845	1425		21.0			0.1		7
2 1005	1505	23.8	***	2.45	1.4	~	104.	
2 1015	1515		25.2	2.59		2.9		5
2 1105	1565	27.0		3.59	1.1		110.	
2 1115	1575		28.8	3.64		1.9		to.t
2 1205	1625	30.8		3.59	0.7		230.	
2 1215	1635		30.0	3.50	~	1.2		11
2 1305	1685	32.2		3.46	0.7		294.	
2 1315	1695		30.2	3.32		0.9		20
2 1405	1745	33.0		2.96	0.4		342.	
2 1415	1755		31.3	2.86		0.5		25
2 1505	1805	32.0		2.00	0.3		361.	
2 1515	1815		30.8	1.98		0.3		28

----- NO DATA TAKEN

t							
DE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
DENS	CONDENS	#PART>.3	#PART>.3	‡PÄRT>₊5	#PART>.5	‡ PART>1	#PART>1
3/00	10E3/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
-143	CNC-143	CLIMET	CLIMET	CLIMET	CLIMET	CLIMET	CLIMET
0.0	0.0	٥.	0.	٥.	Q.,	٥.	٥.
7.0	V • V	0.		0.		ũ.	
	16.0		0.		0.		0.
4.0		0.		٥.		0.	
	13.5		0.		0.		٥.
2.0		٥.	tigs are that me time blue	0.		0 +	
	12.0		0.		0.		٥.
0.0		16.		٥.	grant, solve death daugh bloss degree	0.	
	9.5		207.		9•		٥,
8.7		290.		37.		0.	
	8.1		372.		110.		1.
6.8		418.		205.		11.	
(m	6.1		393.		153.		3.
5.3		444.		292.		50.	
	4.4		392.		159.		4.
3.9		445.		300.		58.	
	3.1		379.		147.		4.
		137.		51.		٥.	
0.1	0.1	13/+	73.		5.		0.
1.4	0+1	104.		96.		2.	
1.4	2.9	107+	50.		24.		٥.
1.1	2+7	110.		76.		2.	
1 + 1	1.9	110+	39.		21.		0.
	1 + 7	230.		73.		2.	
0.7	1.2	230+	110.		18.		0.
0.7	1 + 41	294.		99.		4.	
2	0.9	£74+	204.		28.		0.
0.4	V+7	342.		121.		6.	
)	0.5	₩ 7 ₩ 7	250.		50.		0.
0.3	0.0	361.		116,		6.	
	0.3		281.		59.		1.
	V+3		W T				

AFF- 80 JP8-SHALE/VARIABLE NOX 1981 MAY 21,22

CLOCK TIME	ELAPSED TIME	SIDE 1 BSCAT 10-4 M-1	SIDE 2 BSCAT 10-4 M-1	SIDE 1 AER.V UM3/CC	SIDE 2 AER.V UM3/CC	SIDE 1 AER·N PART/CC	SIDE 2 AER.N PART/CC	SIDE AER: UM2/
DY HR.	(MIN)	MRI-388	MRI-388	E20-18T	TSI-023	TSI-023	TSI-023	TSI-(
1 605	-175	0.0	0.0	-1.	-1.	2134.	2134.	-7
1 730	-90							
1 835	-25	0.0		1.		3.9E 04		100
1 845	-15		0.0		i.		3.8E 04	
1 1005	65	0.0		4.		7.7E 04		385
1 1015	75		0.0		5.		7.4E 04	
1 1105	125	0.5		8.	-	6.3E 04		666
1 1115	135		0.8		19.		6.2E 04	*******
1 1205	185	3.6		13.		5.7E 04		938
1 1215	195		3.6		16.		5.6E 04	
1 1305	245	9.0	** ** **	16.		5.2E 04		1066
1 1315	255		7.0		17.		5.3E 04	
1 1405	305	17.2		19.		5.2E 04		1157
1 1415	315		7.0		15.		4.3E 04	*** *** ***
1 1505	365	20.0		21.		4.2E 04		1118
1 1515	375		6.1		14.		3.4E 04	~
1 1605	425	24.0		18.		3.5E 04		931
1 1615	435	map they was seen and make	5.0	gands differ from topic prign	13.		2.1E 04	
2 725	1345				****	~		
2 835	1415	1.3		1.		126.		38
2 845	1425		0.3		2.		145.	
2 1005	1505	1.5	***	1 ،		7932,		122
2 1015	1515		0.5		2.		1.4E 04	~
2 1105	1565	1.5		3.		6929.		189
2 1115	1575		0.8		2.		1.2E 04	
2 1205	1625	2.8		4.	همد يمند بديه هم جمه	7611.	~ ~ ~	183
2 1215	1635		1.3		4.	~-~-	8750.	
2 1305	1685	3.5		4.		5956.	Van men man park array atap	183
2 1315	1695		1.6		4.		7532.	
2 1405	1745	4.5		-2.		4559.		105
2 1415	1755		2.0		2.		5061.	
2 1505	1805	4.6		3.		4170.	**	129
2 1515	1815		2.0		13.		3411.	

----- NO DATA TAKEN

2 V C	SIDE 1 AER.N PART/CC	SIDE 2 AER.N FART/CC	SIDE 1 AER.S UM2/CC	SIDE 2 AER.S UM2/CC	SIDE 1 N-C10 FFM	SIDE 2 N-C10 PPM
23	TSI-023	TSI-023	181-023	TSI-023	VAR 3700	VAR 3700
	2134.	2134.	-7.	-7•		
			ڪ ڪي بند جور سند سند		0.1457	
-	3.9E 04		102.			
	بطو هيد بيد بيد بيد	3.8E 04		85.		0.1472
	7.7E 04		385.		0.1434	
•		7.4E 04	and the orth that the thin	481.	year have seen mile year and	
	6.3E 04		666.			
•		6.2E 04		936.		0.1348
	5.7E 04	,	938.		0.1364	
		5.6E 04	and the tree with \$400 tolks	1115.		
	5.2E 04		1066.			
		5.3E 04		1091.		0.1208
	5.2E 04		1157.			
•		4.3E 04	w 144 HA 148 HA TH	939•		,
	4.2E 04		1118.		0.1205	
	Ages were any one other time	3.4E 04		781.		
	3.5E 04		931.			A 4407
) .		2.1E 04		624.		0.1187
					0.1024	
	126.		38.		anne sinn alle velo 340 Mil-	
		145.		42.		0.1157
	7932.		122.		0.1105	
١.		1.4E 04		166.		
	6929.		189,	12 AP 40 AP		
١.		1.2E 04		191.		0.1112
	7611.		183.		0.1078	
١.		8750.		202.		
	5956.	***	183.			
ŀ		7532.		173.		0.1091
	4559.		105.		0.1024	
٤,		5061.		134.		
	4170.		129.	451		0.1061
3.		3411.		196.		Atrot

AFF- 80 JP8-SHALE/VARIABLE NOX 1981 MAY 21,22

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 N-C11 FPM VAR 3700	SIDE 2 N-C11 PPM VAR 3700	SIDE 1 N-C12 PPM VAR 3700	SIDE 2 N-C12 PPM VAR 3700	SIDE 1 N-C13 PPM VAR 3700	SIDE 2 N-C13 PPM VAR 3700	SII N-C FF VAR
1 730 1 845 1 1005 1 1115 1 1205 1 1315 1 1505 1 1615	-90 -15 -65 135 185 255 365 435	0.1548 0.1590 0.1525 0.1384	0.1621 0.1489 0.1414 0.1358	0.0970 0.1060 0.1002 0.0902	0.1092 0.0967 0.0929 0.0859	0.0460 0.0495 0.0476 	0.0521 0.0464 0.0461 	0.
2 725 2 845 2 1005 2 1115 2 1205 2 1315 2 1405 2 1515	1345 1425 1505 1575 1625 1695 1745 1815	0.1177 0.1300 0.1275 	0.1313 0.1265 0.1264 	0.0762 0.0915 0.0777 0.0696	0.0814 0.0794 0.0757 	0.0413 0.0390 0.0366 	0.03/7 0.03/7 0.0377 0.0363 	0.

1 2 1 1 3700	SIDE 1 N-C13 PPM VAR 3700	SIDE 2 N-C13 PPM VAR 3700	SIDE 1 N-C14 PPM VAR 3700	SIDE 2 N-C14 FPM UAR 3700	SIDE 1 124TMEBZ FPM VAR 3700	SIDE 2 124TMEBZ PPM VAR 3700
	0.0460		0.021		0.0275	
92		0.0521	A AA4	0.024	A A24E	0.0273
7.7	0.0495	0 0444	0.021	0.020	0.0265	0.0229
967 	0.0476	0.0464	0.019	V+V2V	0.0225	
29	V+V+7-0	0.0461		0.021		0.0195
	0.0438		0.020		0.0187	
859		0.0416		0.019		0.0183
	0.0413		0.022		0.0154	
814		0.0397		0.019		0.0138
	0.0390		0.018		0.0159	
794		0.0377	0000 0000 0000 0000 0000 0000	0.017		0.0167
	0.0366		0.015		0.0146	
257		0.0363		0.016		0.0152
	0.0302		0.012		0.0126	
599		0.0310	*** *** *** ***	0.013		0.0145

)

AFF- 80 JP8-SHALE/VARIABLE NOX 1981 MAY 21,22

		SiDE 1	SIBE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SII
CLOCK	ELAPSED	CO	CO	PAN	PAN	нсно	нсно	PART
TIME	TIME	FFM	PPM	PPM	PPM	FFM	PPM	PAR1
DY HR.	(MIM)	BK6800-1	BK6800-1	ECD-3	ECD-3	ĈA	SA.	TSI-
4 400								
1 605	-175	0.66	0.66	0.000	0.000			85
1 810	-50					0.004	0.002	
1 835	-25	0.73		0.000				3.7
1 845	-15		0.72		0.000			
1 1005	65 	0.78		0.002				4.0
1 1015	75	1000 0000 W.D. 50% 1005 1008	0.70		0.006			
1 1105	125	0.76		0.010				501
1 1115	135		0.76	** ** *** ***	0.027			
1 1200	180					0.030	0.030	
1 1205	185	0.75		0.029				58
1 1215	195		0.80		0.053			
1 1305	245	0.77		0.050				-100
1 1315	255		0.84		0.083	~ ~		
1 1405	305	0.83		0.082				200
1 1415	315		0.88		0.089		that the out the says sain	
1 1505	365	0.85		0.116				-100
1 1515	375		0.84		0.098			
1 1605	425	0.91		0.130				50
1 1610	430					0.067	0.060	
1 1615	435		0.84		0.104			
2 010	1700							
2 810 2 835	1390					0.107	0.082	
	1415	0.91		0.057	***			-133
	1425		0.91		0.040			
	1505	0.91		0.064			MP 140 MG 14. 9 mm	83
2 1015 2 1105	1515		0.86		0.045			
	1565	0.89		0.072				-100
2 1115 2 1200	1575		0.96					
	1620					0.115	0.086	
	1625	0.99	0.00	0.076				50
2 1215	1635	4 05	0.92		0.051			
2 1305	1685	1.05		0.076				16
2 1315	1495	4 00	1.05		0.051			
2 1405	1745	1.08		0.072				
2 1415	1755		1.07		0.049			
2 1505	1805	1.11		0.068				16
2 1510	1810					0.092	0.090	
2 1515	1815	~ ~ ~ ~ ~ ~	1.10		0.048			

SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 PART.024 PART/CC TSI-023	SIDE 1 FART.042 PART/CC TSI-023	SIDE 2 PART.042 PART/CC TSI-023
0.004	0.002	835.	835.	1305.	1305.
	0.002	3.7E Q4			
		3+/E V4		1827.	
* 		4.0E 04	3.5E 04	2.9E 04	2610.
	*** **** *** *** *** ***	7.02 04	2.5E 04	2.76. 04	
		5010.	2+36 04	3.2E 04	3.6E 04
	100 500 515 500 500 500	20101	-334.	3+2E V4	2.4E 04
0.030	0.030	* * *** *** *** ***	~~~~		2.46 04
		835.	C 7: 100 min page 540 2500	1.25 04	10 100 10 100 100 100
		~~~~	-3006.	*****	3915.
		-1002.		1479.	37131
			334.	***************************************	1218.
		2004.		1479.	
			-334.		1218.
		-1002.		1044.	And 100 mm 3rd 100 mm
		men ente des esté upe una	334.		870.
		501.		1392.	rior sale and long rate due
0.067	0.060				
The state of the same	1970 MAR talk total data man	Tiple filter some some pass	-2839.		-261.
0.107	0.082				but make make when some while
		-1336.	and the same year the fire	435.	Feb 180 100 100 110 110
			-668.		261.
		835.		2523.	
	100 AND AND ADD 1000 AND		1336.	-	5481.
		-1002.	The 18 and 14 and 15	696.	
0.115			1002.	and that spin may were age.	957.
0.113	0.086				
		501.		174.	en 440 440 ton 100 am
		167.	-501.		348.
		10/•		-174.	
		0.	668.		-261.
			-167.	0.	
		167.	-10/+	174.	-522.
0.092	0.090			1/4.	100 to 100 to 100 to
			-501.		174.

**}** 

AFF- 80 JP8-SHALE/VARIABLE NOX 1981 MAY 21-22

			SIDE 1	SIDE 2	SIDE 1	SIDE 2	ETTE 1	SIDE 2	SII
	CLOCK	ELAPSED	PART.075	PART.075	P4RT.133	PART.133	ZA3 (+237	PART - 237	PAR1
	TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PAR1
I	Y HR.	(MIN)	TSI-023	TS1-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI:
1	405	-175	44.	44.	24.	24.	-51.	-61.	~- }
1	835	-25	622.		24.		123.		
1	l 845	-15		44.		٥.		٥.	
1	1005	65	7651.		289.		-25.		
1	1015	75		1.2E 04		193.		0 .	
1	1105	125	2.5E 04		651.		25.	and the same offic from their	<b>-</b> -;
1	1115	135		3.8E 04		940.		0.	
1	1205	185	4.3E 04		1542.		111.	more desprises them than the	
1	1 1215	195		5.2E 04		3012.		49.	·
	1 1305	245	4.7E 04		3784.		37.		
	1 1315	255		4.8E 04		4193.		0.	
	1 1405	305	4.2E 04		7085.		74.	-	
	1 1415	315		3.7E 04		4531.		111.	
	1 1505	365	3,3E 04		8724.		111.		
	1 1515	375		2.9E 04		4338.		٥.	
	1 1605	425	2.5E 04		8314.		0.		
	1 1615	435		2.0E 04		3904.		111.	
	2 835	1415	533.		482.		12.		
	2 845	1425		311.		120.	appending the same with same same	111.	
	2 1005	1505	4129.		506.	samp of the bellet basis of the 1869	-148.		ĭ
	2 1015	1515		6749.		193.		-25.	
	2 1105	1.565	6216.		868.		135.		
	2 1115	1575		9191,		578.		0.	
	2 1205	1625	5639.		1325.		-62.		
	2 1215	1635		7948.		940.		12.	
	2 1305	1485	4307.		1615.		25.		
	2 1315	1695		5905.		1301.	72 page 160 page 160 160	-98.	
	2 1405	1745	3019.		1566.		-12.	terio irana arbata proper marka Africa	
	2 1415	1755		4706.		1060.		0.	
	2 1505	1805	2442.		1325.		62.		
	2 1505	1815	27727	2797.		892,		-37.	
		1010		*** * * * * * *		- · <del>-</del> ·			

## NOTES

A PROBABLE INTERFERENCE BY FUEL ON OZONE READINGS.

Ł						
BE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
T.133	PART.237	PART.237	PART.422	PART.422	PART.750	PART.750
1/00	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PARTZOD
-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
24.	-61.	-61.	-13.	-13.	٥.	٥.
f	123.	146 W Fig 44 100 100	-13.		٥,	-
0.		0.		13.		<b>O</b> ,
	-25.	0.	0.		4.	
93.		0+		0.		4.
	25.		-33.		7.	
40.		0.		53.		28.
	111.		0.		4.	
12.		49.		0.	- ·	4.
	37.		7.		٥.	
93.	and the same also save the	0.		7.		4.
	74.		フ・		0.	been some maps where some comes
31.		111.	and dock whip gave area alies	0.	July mines select differ these select	0.
	111.	~ ~ ~ ~ ~ ~	13.		7.	page open over one open than
38.		0.		40.	um tem min us and and	4.
	0.		27.		4.	
04.		111.		40,	jan was the same and	7.
	12.		0.	100 10° 100, 000 10° imm	٥.	
20.	12+	111.		7.	· · ·	4.
	-148.	11(1	100.	/ ·	-14.	7 +
93.	170+	-25.	100+	13.	17:	0.
	135.	4.J+	20.	70+	-4.	~
78.	100+	0.	201	~20.	7,	0,
	-62.	V +	33.	~20+	0.	· · · · · · · · · · · · · · · · · · ·
40.	0.4	12.	900	0.	· · ·	4.
701	25.	121	13.	V +	4.	7 *
01.	4 1 1 + 	-98.	13.	13.	7.	4.
V1+	-12.	70+	7.	13+	-21.	4.
60.	-12+	0.		-20.	-21.	4.
	62.	V •	0.	-20.	0.	4 +
92.	62+	-37.	0.		0,	A /
i ア		-3/+	~ ~ ~ ~ ~	40.		46.

READINGS.

PPM

PPM

PPMC

PPMC

SIDE 1 SIDE 2

SIDE 1

SIDE 2

0.128

0.128

AFF- 81

NO2-UNC

NO2-UNC

THC

THC

B-NOX-1

B-NOX-1

BK6800-1 44.20

BK6800-1 23.10

AFF- 81 JP-8 (SHALE) VARIABLE FUEL 1981, MAY 27

INSTRUMENTS	USED	SAMPLING RATE
ID LABEL	DESCRIPTION	(ML/MIN)
2920 10'C-600	RM-121; 10' 10% CARBOWAX-600 GC; FID	
2200 DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2650 VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FI	D
2100 PN-1	RM-121 POROPAK-N GC; FID	
1790 D-1790	DASIBI 1790 OZONE MONITOR	
4600 B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850 BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
1800 DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
2000 ECD-1	RM-121; 12" 5% CARBOWAX-400 GC; ECD	
4300 TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
4350 CLIMET	CLIMET 208 OFTICAL FART, CTR; SN: 76-148	
4400 MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200 CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN14	3
3000 CA	CHROMOTROPIC ACID HCHO ANALYSIS	
4131 EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	

AFF- 81 JP-8 (SHALE) VARIABLE FUEL 1981, MAY 27

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SII
CLOCK	ELAPSED	OZONE	OZONE	ИО	ОИ	N02-UNC	NO2-UNC	NOX-
TIME	TIME	PPM	PPM	PPH	PPM	FFM	₽₽M	Ł. Ł
DY HR.	(NIM)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NC
1 635	-145	0.000	0.000	0.004	0.004	0.002	0.002	٥.
1 835	-25	0.008 A		0.362		0.128		ō.
1 845	-15		0.000		0.362		0.128	
1 1005	65	0.016		0.227		0.238		٥.
1 1015	75		0.004		0.203	~ ~ ~ ~ ~ ~	0.258	
1 1105	125	0.066		0.060		0.373		0.
1 1115	135		0.059		0.048	-	0.400	
1 1205	185	0.303		0.009		0.329		٥.
1 1215	195		0.208		0.011	-	0.370	
1 1305	245	0.466		0.006		0.209		٥.
1 1315	255		0.354		0.009		0.302	
1 1405	305	0.538	~~~~	0.009		0.132		0.
1 1415	315		0.473		0.009		0.229	
1 1505	365	0.526		0.007		0.110	1000 rate when quiry taken garen	٥.
1 1515	375		0.523		0.009		0.169	
1 1605	425	0.500		0.008		0.108		0.
1 1615	435		0.543	,	0.010	allie when that high speed them	0.139	
2 835	1415	0.330	****	0.007		0.046	-	٥.
2 845	1425		0.345		0.010		0.057	
2 1005	1505	0.312		0.011		0.057		٥.
2 1015	1515		0.328		0.012		0.077	
2 1105	1565	0.312		0.008		0.070		٥.
2 1115	1575		0.341		0.010		0.081	
2 1205	1625	0.328		0.010		0.070		٥.
2 1215	1635		0.362		0.011		0.090	
2 1305	1685	0.346		0.009		0.072		٥.
2 1315	1695		0.380		0.011		0.091	
2 1405	1745	0.357		0.010		0.071		٥.
2 1415	1755		0.389		0.012		0.092	
2 1505	1805	0.362		0.010		0.071		٥.
2 1515	1815		0.385		0.011		0.089	

SIDE 1 NO2-UNC	SIDE 2 NOC-UNC	SIDE 1 NOX-UNC	SIDE 2 NOX-UNC	SIDE 1 THC	SIDE 2 THC
PPM	PrM	PPM	PPM	PPMC	FFMC
B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	BK6800-1	BK6800-1
D ROX 1	D 11.011 0				
0.002	0.002	0.008	0.008	1.24	1.24
0.128		0.494		44.20	
	0.128		0.494		23.10
0.238		0.477		44.20	
	0.258		0.477		22.60
0.373		0.430		42.60	
	0.400		0.438	ways steen after them after these	22,30
0.329		0.322		40.50	
	0.370		0.362		21.50
0.209		0.207		41.70	
	0.302		0.298		20.20
0.132		0.132		39.00	
	0.229		0.227		19.10
0.110		0.111		39.60	
	0.169		0.170		18.90
0.108		0.110		38.50	
	0.139		0.141		18.50
0.046		0.050		37.10	
	0.057		0.062		17,60
0.057		0.062	ness from July 10th 40th Brit.		
	0.077		0.082		
0.070		0.073			
	0.081		0.089		
0.070	,	0.075		38.70	
	0.090		0.095	1127 Ages 4000 Augs 1000 AUGS	17.70
0.072		0.078		38.50	
	0.091		0.098		17.50
0.071	man rate year older have selfe	0.078		38.00	
	0.092		0.099		16.90
0.071		0.078		37.40	
	0.089		0.095		16.80

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AFF- 81 JF-8 (SHALE) VARIABLE FUEL 1981, MAY 27

	CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 T DEG C DORIC-1	SIDE 2 T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	SIDE 1 CONDENS 10E3/CC CNC-143	SIDE 2 CONDENS 10E3/CC	SIDE 1 #PART).3 PART/CC	SII #PAI PAR
	1 605 1 635	-175 -145	16.6	16.6		0.0	CNC-143	CLIMET 0.	CL
	1 835	-25	18.0			22.0	are one the said ope that	0.	
	1 845 1 1005	-15 65	24.0	18.7	2.63	14.0	44.0	0.	
	1 1015 1 1105	75 125	27.3	24.7	1.94 3.91	****	24.0	Max 4.00 610 600 600	
	1 1115 1 1205	135 185	29.7	28.4	4.00	12.5	16.0	0.	
	1 1215	195		28.6	2,96 2,09	10.5	14.0	305.	 ć
	1 1305 1 1315	245 255	28.5	28.1	2.50 2.54	9.0	11.5	449.	28
	1 1405 1 1415	305 315	29.1	27.7	2.36 1.82	7.5	9.0	462.	 39
	1 1505 1 1515	365 375	26.6	26.2	1.46	6.9		462.	
	1 1605 1 1615	425 435	29.1	27.7	1.46	5.2	7.5	456.	42 
					1.37	***************************************	5.6	WE No. 100 ton 100 au	42
-	2 835 2 845	1415 1425	21.2	21.7		0.0	0.0	301.	 26
ī	2 1005 2 1015	1505 1515	26.9	29.4	3.14 3.37	0.2	0.6	255.	 21
	2 1105 2 1115	1565 1575	29.0	30.3	3.46	0.3		213.	
	2 1205 2 1215	1625 1635	31.0	31.1	3.55	0.3	0.4	222.	21 
	2 1305	1685	33.2		3.55 3.46	0.3	0.3	247.	28
	2 1315 2 1405	1695 1745	33.4	31.6	3.41 2.91	0.2	0.3	241.	31 
	2 1415 2 1505	1755 1805	31.9	31.5	2.82 2.36	0.0	0.0	220.	26 
	2 1515	1815	***	30.8	2,23		0.0		19

.

SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 *PART/.3 PART/CC CLIMET	SIDE 2 #PART>.3 PART/CC CLIMET	SIDE 1 #PART>.5 PART/CC CLIMET	SIDE 2 *PART>.5 PART/CC CLIMET	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 #PART>1 PART/CC CLIMET
0.0	0.	0.	0.	0.	0.	٥.
	0.		0.			
44.0		٥.		0.	0.	0.
24.0	0,		٥.		0.	
27+0	0.	0.	·- ·- ·- ·- ·- ·- ·- ·-	٥,		0.
16.0		0.	0.	0.	0.	
	305.		45.		0.	0.
14.0	449.	61.	*** *** *** ***	0.		0.
11.5	449,	280.	283.		42.	
	462.		350.	32.	105.	0.
9.0		398.		153.	102+	3.
7.5	462.	A C3 100	352.		108.	J+
/ + J	456.	427.	70 mg mg	228.		17.
5.6		428.	333.	244.	87.	
		1201		244.		24.
	301.		78.		2.	
0.0		263.		46,		0.
0.6	255.	210.	135.		4.	
	213.	210+	191.	98.		2.
0.4		217.		124.	10.	
0.3	222.		164.		11.	4.
0.3	247.	282.		130.		6.
0.3	24/.	315.	139.	100	12.	
	241.	212+	123.	129,	40	7.
0.0	*** *** *** ***	267.		107.	12.	7.
	220.		117.		10.	
0.0		199.	Total dayle dayer props dayle years	103.		5.

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AFF- 81 JP-8 (SHALE) VARIABLE FUEL 1981, MAY 27

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 BSCAT 10-4 M-1 MRI-388	SIDE 2 BSCAT 10-4 M-1 MRI-388	SIDE 1 AER.V UM3/CC TSI-023	SIDE 2 AER.V UM3/CC TSI-023	SIDE 1 AER.N PART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SII AER UM2 TSI-
1 605 1 730	-175 -90	0.2	0,2	1.	1.	656.	656.	2
1 835	25	0.2	what while above some pales aroun	1.		6.5E 04		13
1 845	-15		0.3		7.	0135 04	2.1E 05	
1 1005	65	0.4	W W W W W	5.	/ ·	7.7E 04	7.16 00	46
1 1015	75	***	0.5		6.	, , , _ , , , , , , , , , , , , , , , ,	1.2E 05	
1 1105	125	2.0		12.	~ ~ ~ ~ ~ ~ ~ ~	6.3E 04		84
1 1115	135		1.3	~ ~ ~ ~	12.		8.5E 04	
1 1205	185	11.0		24.		6.7E 04		142
1 1215	195		3.0		14.		7.4E 04	
1 1305	245	26.0		37.		7.0E 04	7 T T T T T T T T T T T T T T T T T T T	178
i 1315	255		6.0		22.		6.8E 04	
1 1405	305	35.0		32.	~~~~	6.6E 04		175
1 1415	315		9.0		23.		6.1E 04	2/5
1 1505	365	36.0		28.		5.5E 04	~~~~~	151
1 1515	375		10.0	~ ~ ~ ~ ~ ~	22.	~~~~	5.5E 04	
1 1605	425	32.0		25.		4.2E 04		127
1 1615	435	400 th per sad ton an	7.0		25,	one the see see and	4.2E 04	
2 730	1350				here their rate alone ways, when		***	
2 835	1415	4.0		4.		1685.		9
2 845	1425	-	1.8		2.		1618.	
2 1005	1505	3.0		2.		2703.		8
2 1015	1515		2.2		12.		2702.	
2 1105	1565	3.5		2,		2598.		7
2 1115	1575		2 • 4		7.		4313.	
2 1205	1625	3.2		5.		2903.		11
2 1215	1635		2.5		8.		2933.	
2 1305	1685	3.6		1.		3334.		7
2 1315	1695		2.4		4.		2018.	
2 1405	1745	3.5		3.		2212.		9
2 1415	1755		2.3		2.	*** *** *** *** ***	2444.	
2 1505	1805	2.5	~~~~~	2.		117.		7
2 1515	1815		1.1		5.		1925.	

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SIDE 1 AER.N FART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SIDE 1 AER.S UM2/CC TSI-023	SIDE 2 AER·S UM2/CC TSI-023	SIDE 1 N-C10 FFM VAR 3700	SIDE 2 N-C10 FPM VAR 3700
656.	656.	23.	23.		
					0.1275
6.5E 04		135.		0.3061	~~~~~
	2.1E 05		757.	~~~~~	***************************************
7.7E 04		466.			
from the region case area.	1.2E 05		653.	100 to 400 to 100 to 100	0.1332
6.3E 04		846.		0.2989	
200 Marie 1440 Marie 1	8.5E 04		929.		
6.7E 04		1421.	~~~~		
~ ~ ~ ~ ~ ~	7.4E 04		1218.		0.1244
7.0E 04		1787.		0.2769	
	6.8E 04	***	1360.	mer care out only was tree	sills death and many south even
6.6E 04		1754.	and him type that was when		
	6.1E 04		1368.		No los des es era te
5.5E 04		i511.		0.2662	
4.2E 04	5.5E 04		1247,		
4+_E 04		1272.			
	4.2E 04		1148.	ويت ميد ميد سيد ييد	0.1191
	The last my tax gray year			tall the talk mar and an	0.1057
1685.		98.	MCS Miles allege from some some	9.2705	
	1618.		68.		
2703.		85.			
	2702.		178.		0.1130
2598.		77,		0.2502	
5067	4313.	days open man death Work Colle	158.		
2903.		111.			A 1101 100 110 med plan
~~~	2933.	***************************************	174.		0.1063
3334.		74.		200 Teb 50x Oug gat 1/4	
0040	2018.	-	122.		
2212.		93.	***************************************	0,2481	
117.	2444.		96.		
11/+	1005	73.	*** *** **** **** ****		
2 - mar mar mar) 400 mgs	1925.		107.		0.1029

AFF- 81 JP-8 (SHALE) VARIABLE FUEL 1981, MAY 27

	CLOCK TIME	ELAPSED TIME	SIDE 1 N-C11 PPM	SIDE 2 N-C11 PPM	SIDE 1 N-C12 FFM	SIDE 2 N-C12 PPM	SIDE 1 N-C13 FFM	SIDE 2 N-C13 PPM	SII N-0 PF
I	Y HR.	(MIN)	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR
1	730	-90		0.1400		0.0828		0.0367	
_	835	-25	0.3325		0.2109	-	0.0981	*** *** *** *** ***	0.
	1015	75		0.1609		0.1107		0.0543	
	1105	125	0.3296		0.2117		0.0935		٥.
1	1215	195		0.1512		0.1029		0.0489	
_	1305	245	0.3213		0.2010		0.0852		٥.
Á	1505	365	0.3068		0.1949	-	0.0892		0.
1	1615	435		0.1455	~ ~ ~ ~	0.0996	note and both rate and date.	0.0514	
2	2 730	1350		0.1270		0.0818		0.0468	
2	835	1415	0.2858	*** *** *** *** ***	0.1740		0.07/8		٥.
	2 1015	1515		0.1357		0.0751		0.0497	
	2 1105	1565	0.2836		0.1691	100 the after that the same	0.0708		0.
	2 1215	1635		0.1331		0.0869	-	0.0447	
2	1405	1745	0.2808		0.1737		0.0768	the bud him day died upto	٥.
2	2 1515	1815		0.1260		0.0821	Date and RATE offer stem plant	0.0425	

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P'P'M	SIDE 2 N-C13 FPM	SIDE 1 N-C14 PPM	SIDE 2 N-C14 PPM	SIDE 1 124TMEBZ PPM	SIDE 2 124TMEBZ PPM
AR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700
	0.0367		0.015		0.0281
0.0981		0.041		0.0583	
	0.0543		0.023	-	0.0272
0.0935		0.031		0.0533	
	0.0489		0.019		0.0222
0.0852		0.028		0.0486	
0.0892		0.034		0.0454	
	0.0514		0.021		0.0183
	0.0468		0.031		0.0194
0.0778		0.033		0.0425	
	0.0497		0.021		0.0173
0708		0.023		0.0406	
~~~~	0.0447	~~~~	0.019		0.0147
0.0768		0.031		0.0382	
	0.0425		0.019	~	0.0132

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AFF- 81 JF-8 (SHALE) VARIABLE FUEL 1981, MAY 27

CLOCK	ELAPSED	SIDE 1 CO	SIDE 2 CO	SIDE 1 PAN	SIDE 2: PAN	SIDE 1 HCHO	SIDE 2 HCHO	SID PART
TIME	TIME	PPM	PPM	PPM	PPM			
DY HR.	(MIN)	BK6800-1	BK6800-1	ECD-1	ECD-1	P'P'M	PPM	PART
יים ויע	(HIIN)	BV0000-I	PV0800-1	FCD-I	ECD-1	CA	CA	TSI-
1 605	-175							16
1 635	-145	0.84	0.84	0.000	0.000			
1 810	-50					0.007	0.000	
1 835	-25	0.89		0.001				5.9
1 845	-15		1.00	~ ~ ~ ~ ~ ~	0.000			
1 1005	65	0.91		0.002				3.3
1 1015	75		0.93		0.002			
1 1105	125	0.86		0.011		NG 44 HG 100 HR 104		384
1 1115	135		0.90		0.012	and after halfe page and after		
1 1200	180					0.028	0.025	
1 1205	185	0.96		0.036				16
1 1215	195		0.96		0.033			
1 1305	245	0.98		0.056				183
1 1315	255		1.01		0.047	~		
1 1405	305	0.96		0.084				100
1 1415	315		1.05		0.073	~ ~ ~ ~ ~ ~		
1 1505	365	1.02		0.097				183
1 1515	375		1.02		0,101			
1 1605	425	1.08		0.098				150
1 1610	430					0.073	0.054	
1 1615	435		1.05		0.108			~
2 810	1390		about product is seen about to the control of the c			0.113	0.082	
2 835	1415	1.05		0.033		***		-116
2 845	1425		1.07		0.041			
2 1005	1505			0.039				16
2 1015	1515				0.048		**** **** (**** **** **** ****	
2 1105	1565			0.043				50
2 1115	1575				0.053			
2 1200	1620					0.117	0.097	
2 1205	1625	1.27		0.046				16
2 1215	1635		1.29		0.061			400
2 1305	1685	1.34		0.044				100
2 1315	1695	4 70	1.33		0.054			0.7
2 1405 2 1415	1745	1.39		0.045	A AF7	***************************************		83
2 1415	1755 1805	1.44	1.45	0.043	0.057			-200
2 1505	1810	1 + 4 4		0.043		0.122	0.117	-200
2 1510	1815		1.44		0.063	0+122	0.11/	
Z IJIJ	1013		1+44		0.003			200

SIDE 1 HCHO FFM	SIDE 2 HC40 PPM	SIDE 1 PART.024 PART/CC	SIDE 2 PART.024 PART/CC	SIDE 1 FART.042 FART/CC	SIDE 2 PART.042 PART/CC
CA	EA	TSI-023	TSI-023	TST-023	TSI-023
eric and eric and after the		167.	167.	261.	261.
0,007	0.000			the day and the day and	
		5.9E 04		4872.	
-			1.5E 05		4.8E 04
	~~~~~	3,3E 04		3.2E 04	
			5.3E 04		4.8E 04
		3841.		2.4E 04	
		a the star stars grow under Africa	1.2E 04		3.7E 04
0.028	0.025	SHOULD SEE SEE SEE SELECT SHOEL	*** *** *** ***		
		167.	Type and the box and the	3045.	
			1002.		1.6E 04
		1837.		174.	~ ~ ~ ~ ~ ~
			835.		5220.
	~ ~ ~ ~ ~ ~	1002.		261.	
			-835.		2262.
	ATT THE GOT THE MAN AND AND	1837.		-261.	
	***************************************		2171.		4263.
		1503,	come more one enter goals des	-87.	
0.073	0.054		tion man over non said the	10. This side also yell also	
	offer talls near soles maps admit		501.	an up up ga yar nu	1914.
0.112	0.082			0000 0000 30,5 10mm up. no.	
-		-1169.	*** *** *** *** ***	174.	
		After cook your year good from	-868.		435.
		167.		348.	
			0.		Q ,
		501.		-87.	
		tide selb each were of 8 littler	-167.		87.
0.117	0.097	were the pre-sp. Made			
com case gate quay sour from		167.		261.	
	after their spec super spec state		-1002.		-87.
		1002.		-87.	
		~~~~	-1002.	4.0.4.4	0.
		835.	4/3	-1044.	
			167.	174.	0 .
0.122	0.117	-2004.		1/4.	
0.122	0.11/	***	0.		435.
			V +		ಇವ∪ +

2 -0-2-2-3-7-3-1-8-3-1-4-7-3

AFF- 81 JP-8 (SHALE) VARIABLE FUEL 1981, MAY 27

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	PART.075	PART.075	PART.133	PART.133	PART.237	PART.237	PART
TIME	TIME	PART/CC	PART/CC	FART/CC	PART/CC	PART/CC	PART/CC	PART
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-(
1 605	-175	133.	133,	48.	48.	37.	37.	7
1 835	-25	1288.		-289.		123.		-8:
1 845	-15		1.1E 04		169.		37.	
1 1005	65	1.1E 04	The other other name and agric	530.		-25.		10
1 1015	75		1.7E 04		-48.	***	-61.	~
1 1105	125	3.5E 04		1253.		86.		20
1 1115	135		3,4E 04		1253.		49.	
1 1205	185	5.8E 04	*** *** *** *** ***	5615.		197.		2(
1 1215	ì95		5.4E 04		3012.		86.	*** *** *** *
1 1305	245	5.4E 04		1.3E 04		148.		-33
1 1315	255		5.6E 04		5398.		37.	
1 1405	305	5.0E 04		1.5E 04		234.		C
1 1415	315		5.2E 04		7134.		37.	~~~~
1 1505	365	3.9E 04		1.4E 04		209.	THE SEC THE SEC SEC SEC	-27
1 1515	375		4.0E 04		8580.		98.	
1 1605	425	2.8E 04	~~~~~~	1.3E 04	140 PM NO GO 45 46	197.	100 ter 100 ten 100 ten	27
1 1613	435		3.0E 04		9062.		184.	~
2 835	1415	1598.	107 tun 100 min ten son	1133.		-61.		c
2 845	1425	13/01	1199.		578.		74.	
2 1005	1505	1154.		1060.	3701	-37.	7 -7 •	7
2 1015	1515	41471	1421.	1000+	1229.	-3/1	0.	/ ~~ ~~ ~~ ~~ ~~
2 1105	1545	1243.	1721+	916.	12271	62.	~	-47
2 1115	1575	X = T = T = T	3197.	710+	1205.		-37.	
2 1205	1625	1598.	317/+	819.	1203+	37.		7
2 1215	1635	1370+	2753.	017+	1133.	3/+	86.	
2 1215		1554.	2/33+	795.	1135+	123.	00+	-60
2 1305	1685	1554+	1776.	/73.	1205.	123+	12.	
2 1405	1695	1376.	1//0+	988.	1205+	37.	# AC +	20
2 1405	1745	13/0.	1154.	788.	1060.	3/+	49.	20
2 1415	1755	1066.	1154.	819.	1000.		47.	0
2 1505	1805	1000.	710.	814+	699.	61.	0.	· · · · · ·
2 1010	1815	~ ~ ~ ~ ~	/10+		077+		V +	***************************************

**

SIDE 1 FART.237 FART/CC	SIDE 2 PART.237 PART/CC	SIBE 1 PART.422 PART/CC	SIDE 2 PART.422 PART/CC	SIDE 1 PART.750 PART/CC	SIDE 2 PART.750 PART/CC
TSI-023	TSI-023	TSI-023	TS1-023	TST-023	TSI-023
37.	37.	7.	7.	4.	4.
123.		-87,	the same term that their retain	14.	and the day and the Wa
	37.		13.		4.
-25.		13.	*** *** *** *** ***	٥,	
	-61.		0.		٥.
86.		20.		0.	
	49.		27.		0.
197.		20.		7.	
	86.		53.		-21.
148.		-33.		39.	
	37.	dem mus about about digital appeal.	27.		7,
234.		0.		7.	
~~~	37.	-27.	53.		0.
209.	98.	-2/+	-7.	7.	
197.	78.	27.	/+	4.	11.
17/.	184.	4/+	93.	4 +	11.
	184+	AND, NOVE PASS AND THE USE	73+		11+
-61.		٥.	The July 10 Min was both	11.	PEG AND SHE HAR THE AS
	74.		٥.		0 +
-37.		7.		4.	
	0+	made though party super super	7.		46.
62.		-47.	1,10 mm 00= 50m atm ,500	11.	
	-37.	Marie Salar Marie 1988 Male	7.		21.
37.		7.		14,	
	86.	_ ~ ~ ~ ~ ~	33.		18.
1?3.		-60.		7.	non over non-tree view par
,	12.	~~~~	20.	1944 1989 1884 1884 1884 1884	7.
37.		20.		٥.	
	49 ·		13.		0.
61.		0.	love have trade them upon \$5.00	٥.	nes tim you set the sea
	0.		73.		7.

AFF- 82 PROPENE/NOX CONDITIONING 1981 MAY 29

0725: FILL STARTED. WET: 7.0; DRY: 0.0; DEW PT: 8.8; R.H.= 51%

0830: INJECT 12.0 ML NO, 11.0 NO2, 22.5 ML PROPENE

0900: UNCOVER BAG (T=0)

1400: RUN OVER; BAG DUMPED.

T=0 AT 900 PST

BAG NO. 21 USED

ID INST. AVERAGE S.DEV UNITS

VALUE

T DORIC-1 25.5 8.8 DEG C

INSTRUMENTS USED

ID LABEL DESCRIPTION

1790 D-1790 DASIBI 1790 OZONE MONITOR

4600 B-NOX-1 BENDIX NOX ANALYZER MD8101BX SN300038-2

1800 DORIC-1 DORIC TEMP INDICATOR, SN 61479

CLOCK	ELAPSED	OZONE	ИO	NO2-UNC	NOX-NVC	T
TIME	TIME	PPM	PPM	PPM	PPM	DEG C
DY HR.	(MIM)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	DORIC-1
1 850	-10	0.000	0.208	0.188	0.396	19.3
1 1400	300	0.432	3.010	0.260	0.254	31.7

---- NO DATA TAKEN

A Care

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0830: START FILL. WET: 7.0; DRY: 0.0; DEW PT: 7.2C; R.H.=30%

1030: INJECTED 6.2 ML NO2

1041: INJECTED 20.0 ML NO

1043: INJECTED 0.46 ML PROPENE AND 0.46 ML PROPANE

1110: UNCOVER BAG (T=0)

1320: RUN OVER; BAG DUMPED.

RESULTS:

421

CALC. AVG. OH = 30.8 * D LN(PROPANE/PROPENE)/DT = 0.045 PPT CALC. RAD. INPUT = 16.0 * (AVG.OH) * (60+MIN.AVG.NO2) = 0.11 PPB/MIN -D(NO)/DT = 0.33 PPB/MIN

T=0 AT 1110 PST

BAG NO. 21 USED

ID	INST.	AVERAGE VALUE	S.DEV	פדואט
T	DORIC-1	31.3	2.7	DEG C
UV RAD	EPPLEY	3.92	0.32	MW/CM:
ID	INST.	INITIAL CONC.	UNITS	
Ю	B-N0X-1	0.410	PPM	
NO2-UNC	B-NOX-1	0.130	PPM	
PROPANE	DMS-1	0.0112	PPM	
PROPENE	DMS-1	0.0094	PPM	

INSTRUMENTS USED

10	LABEL	DESCRIPTION
1790	0-1790	DASIBI 1790 OZONE MONITOR
4600	B-NOX-1	BENDIX NOX ANALYZER MD8101BX SN300038-2
4850	9K68G0-1	BECKMAN HYDROCARBON GC MD 6800 SN100015D
1800	DORIG-1	DORIC TEMP INDICATOR, SN 61479
4130	EPPLEY	ARB LAB; EPPLEY 11692 UV RADIOMETER
2200	DMS-1	RM-121; DIMETHYLSULFOLANE; FID
		RM 121; POROPAK N ; FID
2920	10'0-600	RM-121; 10' 10% CARBGWAX-600; FID
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS

AFF- 83 NOX-AIR IRRADIATION 1981 JUNE 1

CLOCK	ELAPSED	OZONE	ON	NO2-UNC	NOX-UNC	PROPANE	PROPENE	LNC3
TIHE	TIME	PPM	PPM	PPM	PPM	PPM	PPM	
DY HR.	(MIN)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	DMS-1	DMS-1	
1 1055	-15	0.000	0.410	0.130	0.540	0.0111	0.0100	****
1 1110	0					0.0112	0.0094	0.3
1 1125	15	0.003	0.420	0.138	0.536	0.0113	0.0090	0.4
1 1140	30	0.003	0.417	0,139	0.535	0.0114	0.0090	0.4
1 1155	45	0.003	0.413	0.141	0.534	0.0113	0.0088	0.4
1 1210	60	9.004	0.408	0.144	0.530	0.0112	0.0085	0.4
1 1225	75	0.004	0.403	0.148	0.528	0.0113	0.0082	0.5
1 1240	90	0.003	0.400	0.149	0.530	0.0105	0.0077	0.5
1 1255	105	0.004	0.390	0.152	0.537	0.0106	0.0073	0.5
1 1310	120	0.004	0.386	0.154	0.535	0.0101	0.0070	0.5
CLOCK	ELAPSED	ETHANE	ACETYLEN	ACETYLEN	I-C4	N-BUTANE	1-C4=	I-C
TIME	TIME	PPK	PPM	PPM	PPM	PPM	FFM	PP
DY HR.	(MIN)	PN-1	DMS-1	PN-1	DMS-1	DMS-1	DMS-1	DMS
1 1055	-15	0.0042	0.0018	0.0018	0.0011	0.0011	0.0002	0.0
1 1102	8							
1 1125	15							
1 1140	30							700 FFE 100
1 1155	45			** ** ** ** **				
1 1210	60							
1 1225	75	and had not also also also						
1 1240	90							
1 1255	105		~ ~ ~ ~ ~ ~					
1 1310	120	*** *** *** *** ***				~ ~ ~ ~ ~ ~ ~		

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ROPANE	PROPENE	LNC3/C3=	T	UV RAD	THC	ETHENE
PPM	PPM		DEG C	MM/CM2	P P M C	PPM
DM5-1	DMS-1		DORIC-1	EPPLEY	BK6800-1	F-N-1
0.0111	0.0100		26.4		1.48	0.0020
0.0112	0.0094	0.3830				
0.0113	0.0090	0.4330	28.7	4.09	1.58	
0.0114	0.0090	0.4370	29.5	4.09	1.39	
0.0113	0.0088	0.4660	31.4	3.46	1.38	
0.0112	0.0085	0.4810	31.5	4.14	1.41	
0.0113	0.0082	0.5280	32.5	4.27	1.43	
0.0105	0.0077	0.5210	33.9	4.09	1.47	
0.0106	0.0073	0.5800	33.7	3.78	1.47	
0.0101	0.0070	0.5720	34.3	3.46	1.41	
-BUTANE	1-04-	I-C4=	CO	нсно	ACETALD	
PPM	PPM	F F M	FFM	PPM	PPM	
DMS-1	DMS-1	DMS-1	BK6800-1	CA	10'C-600	
0.0011	0.0002	0.0001	1.17	*******	0.0051	
	~~~~~			0.013		
	~~~~~		1.50			
	time time team fried action deller	210 cm tob 500 000	1.00			
			1.17			
			1.18			
			1.20	400 mile mile use some arm		
			1.22	-		
			1.20		~~~~~	
			1.18	0.010	0.0080	

0445: START FILL. WET: 7.0; DRY: 0.0; DEW PT: 6.8C; R.H.=43& 630: INJECTED 5.0 ML NO2
0632: INJECTED 18.0 ML NO
0638: DIVIDE BAG
0644: INJECTED 385 MICROLITERS OF JP-8(PET) INTO SIDE A.
0707: INJECTED 125 ML N-BUTANE INTO SIDE B.
0900: UNCOVER BAG (T=0)
0910: WEATHER: LOW CLOUDS, SOME FOG, BUT CLEARING
1300: SUN IS COMING OUT.

T=0 AT 900 PST

BAG NO. 21 USED

1620: RUN OVER; BAG DUMPED.

I D	INST.	AVERAGE	S.DEV	UNITS		
		VALUE				
Ŧ	DORIC-1	25.3	5.3	DEG C	SIDE	1
T	DORIC-1	24.8	4.6	DEG C	SIDE	2
UV RAD	EPPLEY-2	2.24	0.86	MW/CM2		
ID	INST.	INITIAL	UNITS			
		CONC.				
NO	B-NOX-1	0.369	PPM	SIDE 1		
NO	B-NOX-1	0.372	PPM	SIDE 2		
NO2-UNC	B-NOX-1	0.125	FFM	SIDE 1		
NO2-UNC	B-NOX-1	0.127	FFM	SIDE 2		
THC	BK6800-1	19.30	PPMC	SIDE 1		
THC	BK6800-1	31.70	PPMC	SIDE 2		
N-C4	DMS-1	5.1940	PPN	SIDE 2		

INSTRUMENTS USED

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ID LABEL DESCRIPTION 1790 D-1790 DASIBI 1790 OZONE MONITOR 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 4000 ECD-3 AF-LAB; 12 5% CARBOWAX-600 GC; ECD TSI ELECTRICAL AEROSOL ANALYZER MD:3030 4300 TSI-023 4350 CLIMET CLIMET 208 OFTICAL PART, CTR; SN:76-148 MRI INTEGRATING NEPHELOMETER MD:1550B 4400 MRI-388 4200 CNC-143 ENV ONE RICH100 CONDENS NUCLEI CTR;5N143 2100 PN-1 RM-121 POROPAK-N GC; FID 2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID RM-121; DIMETHYLSULFOLANE GC; FID 2200 DMS-1 CHROMOTROPIC ACID HCHO ANALYSIS 3000 CA 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG

AFF- 84 JP-8(PET) VS N-BUTANE 1981 JUNE 2

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDI
CLOCK	ELAPSED	OZONE	OZONE	NO	ИО	M02-UNC	NO2-UNC	ИОХ-I
TIME		PPM	PPM	PPM	F F M	PPM	PPM	PPI
BY HR.		D-1790	D-1790	B-NOX-1	B-NOX-1	B-N0X-1	B-NOX-1	B-NO;
1 605	-175	0.000	0.000	0.002	0.002	0.002	0.002	0.6
1 735	-85							
1 835	5 -25	0.023 A		0.369		0.125		0.1
1 845			0.000		0.372		0.127	
1 1005	·	0.015		0.328		0.161		0.1
1 1015			0.000		0.323		0.178	
1 1105		0.025		0.291		0.189		0
1 1115			0.000		0.282		0.215	
1 1205		0.020		0.220		0.242		0 • -
1 1215			0.000		0.228		0.271	
1 1305		0.034		0.121		0.327		0
1 1315			0.005		0.160		0.330	
1 1405		0.087		0.032		0.390		0
1 1415			0.013		0.101		0.393	
1 1505		0.170		0.011		0.370		0.
1 1515			0.024		0.062		0.436	
1 1605		0.240		0.009		0.329		٥.
1 1615		~~~~	0.028		0.040		0.451	

SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 2
NO2-UNC	NO2-UNC	NOX-UNC	MOX-UNC	THC	THC	N-C4
PPM	PPM	PPM	PPM	F:P:MC	F F M C	P P M
B-N0X-1	B-NOX-1	B-NCX-1	B-NOX-1	BK6800-1	BK6800-1	DMS-1
0.002	0.002	0.002	0.002			0.0007
						0.0013
0.125		0.500		19.30		
	0.127		0.502		31.70	5,194
0.161		0.500		16.90		
	0.178		0.505		33.30	3,938
0.189		0.490		19.10		
	0.215		0.505		31.40	4.837
0.242		0.480		19.00		
	0.271		0.505		31.40	3.938
0.327	~	0.451		18.80		
	0.330		0.500		31.20	5.310
0.390		0.411		18.50		
	0.393		0.494		31.00	5.256
0.370		0.369		17.80		
~	0.436		0.490		31.00	4.454
0.329		0.327		17.30		
	0.451		0.483		31.00	

AFF- 84 JP-8(PET) VS N-BUTANE 1981 JUNE 2

		SIDE 1	SIDE 2		SIDE 1	SIDE 2	SIDE 1	\$1
CLOCK	ELAPSED	T	T	UV RAD	CONDENS	CONDENS	#PART>.3	# P#
TIME	TIME	DEG C	DEG C	MW/CM2	10E3/CC	10E3/CC	PART/CC	PAF
DY HR.	(MIM)	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC-143	CLIMET	CŁ
1 605	-175	16.7	16.7	*********	0.0	0.0	0.	
1 835	-25	19.7			9.3		0.	
1 845	-15		19.7		~~~~	0.0		
1 1005	65	21.6		1.00	18.8		0.	
1 1015	75		21.7	1.18		0.0		
1 1105	125	22.6		1.67	13.7		0.	
1 1115	135		24.2	2.09		0.0		
1 1205	185	26.0		3.00	10.4		0.	
1 1215	195		25.8	3.00		0.0		
1 1305	245	29.6		3.46	8.8	~	0.	
1 1315	255		28.0	3.19		0.0		
1 1405	305	31.2		3.00	6.8		79.	
1 1415	315		30.2	2.86		0.0		
1 1505	365	31.1		2.27	5.3	~ ~ ~ ~ ~ ~	270.	
1 1515	375		29.2	2.14		0.0		
1 1605	425	23.9		1.28	4.1		365.	
1 1615	435		27.6	1.18		0.0		

SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 *PART>.3 PART/CC CLIMET	SIDE 2 *PART>.3 PART/CC CLIMET	SIDE 1 *PART>.5 FART/CC CLIMET	SIDE 2 #PART>.5 PART/CC CLIMET	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 #PART>1 PART/CC CLIMET
0.0	٥.	٠.	0.	0.	0.	0.
	0.		٥.		٥.	
0.0		0.		0.		0.
	0.		0.	~~ ~~ ~~	0.	
0.0		٥.		0.		0.
	٥ ،		٥.		0.	
0.0		٥.		٥.		0.
	0.		٥,		٥.	
0.0		0.		0.		0.
	Ο,		0.		0.	
0.0		0.		٥.		0.
	79.		٥.		0.	
0.0		٥.		0.		0.
	270.		37.		0.	
0.0		0.		0.		٥.
	365.		126.		2.	
0.0		i •		0.		0.

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AFF- 84 JP-8(PET) VS N-BUTANE 1981 JUNE 2

CLOCK	ELAPSED	SIDE 1 BSCAT	SIDE 2 BSCAT	SIDE 1 AER.V	SIDE 2	SIDE 1	SIDE 2	S
TIME					AER.V	AER.N	AER.N	A
	TIME	10-4 M-1	10-4 H-1	UM3/CC	UM3/CC	PART/CC	PART/CC	U
DY HR.	(MIM)	MRI-388	MRI-388	TSI-023	TSI-023	TSI-023	TSI-023	TS
1 605	-175	0.0	0.0	0.	0.	-51.	-51.	
1 735	-85							_
1 835	-25	0.2		2.		3.8E 04		
1 845	-15		0.3		i.		722.	
1 1005	<i>6</i> 5	0.3		3.		3.4E 04		
1 1015	75		0.6		3.		166.	
1 1105	125	0.4		7.		4.4E 04		
1 1115	135		0.7		1.		51.	
1 1205	185	0.7		5.		5.2E 04		
1 1215	195		0.7		2.		-193.	
1 1305	245	1.4		9.		4.4E 04		4
1 1315	255		1.1		1.		183.	
1 1405	305	4.0		7.		3.7E 04		į
1 1415	315		1,4		1.	517L 04	-74.	`
1 1505	365	6.0		12.		7 75 04	774	
1 1515	375	0.0	4 7	12.		3.2E 04		•
		44 0	1.3		2.		363.	
1 1605	425	11.0		15.		3.3E 04		7
1 1615	435	***************************************	1.3		-1.		197.	

NO DATA TAKEN

SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 1	SIDE 1
AER.N	AER.N	AER.S	AER+S	METHANE	N-C10	N-C11
PART/CC	PART/CC	UM2/CC	UM2/CC	F'F'M	P:P:M	PPM
TSI-023	TSI-023	TSI-023	TSI-023	BK6800-1	VAR 3700	VAR 3700
101 050	101 020	101 010	, , , , , , , , , , , , , , , , , , , ,			
-51.	-51.	5.	5.			
					0.0250	0.0827
3.8E 04		139.	~~~~~	1.52		
	722.		15.	***		
3.4E 04		165.		1.51	0.0243	0.0762
	166.		30.			
4.4E 04		257.		1,50	0.0243	0.0781
4+46 V4	E 4	2071	13.	1100	~~~~	
	51.			4 54	0.0242	0,0784
5.2E 04	garder withou agree works will be Milled	331.		1.51	0.0242	0.0704
	-193.		20.			
4.4E 04		485.		1.50		
	183.		18.			~
3.7E 04		596.		1.51	0.0232	0.0749
	-74.		19.			
3.2E 04		695.		1.49	0.0223	0.0726
3.26 04	363,		27.			
	303+	710.		1.50	0.0219	0.0703
3.3E 04		/10+		7.00	010217	V
	197.		-11.			

AFF- 84 JP-8(PET) VS N-BUTANE 1981 JUNE 2

	OCK IME HR.	ELAPSED TIME (MIN)	SIDE 1 N-C12 PPM VAR 3700	SIDE 1 N-C13 PPM VAR 3700	SIDE 1 N-C14 PPM VAR 3700	SIDE 1 124TMEBZ PPM VAR 3700	SIDE 1 CO FPM BK6800-1	SIDE 2 CO PPM BK6800-1	SID PA PP ECD
1.	605	-175		allie hand 1601 date 1600 folio					٥.
1	735	-85	0.0728	0.0558	0.010	0.0112			
1	810	-50							
1 :	835	-25	100 Apr 414 TO 100 1				0.76		٥.
1	845	-15						0.76	
1 1	005	65	0.0712	0.0522		0.0082	0.60		٥.
1 1	015	75						0.58	
1 1	105	125	0.0742	0.0535	0.008	0.0075	99.0		٥.
1 1	115	135						0.72	
1 1	200	180							
1 1	205	185	0.0743	0.0531		0.0070	0.64		٥,
1 1	215	195						0.60	
1 1	305	245					0.64		٥.
1 1	315	255	~					0.60	
1 1	405	305	0.0737	0.0587	0.008	0.0063	0.67		٥.
1 1	415	315						0.65	
1 1	505	365	0.0690	0.0492		0.0057	0.69		٥.
1 1	515	375						0.62	
1 1	605	425	0.0663	0.0475		0.0054	0.72		٥.
1 1	610	430							*** ***
1 1	615	455						0.69	

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l								
1 EBZ 700	SIDE 1 CO FPM BK6800-1	SIDE 2 CO FPM BK6800-1	SIDE 1 PAN PFM ECD-3	SIDE 2 PAN PFM ECD-3	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	SIDE 2 ACETALD PPM 10'C-600	
			0.000	0.000			0.0012	
12					0.015	0.000	man and space pain sales pain	
	0.76	0.76	0.000	0.000		the side are now also are		
 82	0.60		0.001	0.002	were take their rate and man			
 75	0.66	0.58	0.001	0.005			THE REAL PROPERTY AND REAL PROPERTY.	
		0.72			0.004	0.002		
70	0.64	0.60	0.002	0.008		and the same same same same		
·	0.64		0.005	0.010				
63	0.67	0.60	0.010	0.015				
 057	0.69	0.66	0.022				party rather maken speed about states	
	0,72	0.62	0.029	0.019		0.008		
054		0,69		0.021	0.031 		0.0594 E	3

0.69

AFF- 84 JP-8(PET) VS N-BUTANE 1981 JUNE 2

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDI
CLOCK	ELAPSED	PART.024	PART - 024	PART+042	PART.042	PART,075	PART.075	PART
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART
DY HR.	(MIM)	TS1-023	TSI~023	TSI-023	TSI-023	TSI-023	TS1-023	TSI-
1 605	-175	501.	501.	-870.	870.	222.	222,	91
1 835	~25	2.8E 04		7917.	****	1865.		9+
1 845	-15		835.		-174.		44.	~
1 1005	65	1.9E 04		1.2E 04		2975.		161
1 1015	75		٥.		174,		39+	-
1 1105	125	2.6E 04		1.3E 04		4973.	40 V 1 44 40 40 40	:
1 1115	135	~ ~ ~ ~ ~	٥.	1011 Mark wine with 1018 10 ¹⁶	174.	***	0.	
1 1205	185	2.8E 04		1.4E 04		9502.		14!
1 1215	195	*********	-334,		87.		0,	
1 1305	245	7853.		1.6E 04		1.7E 04	may the see and see may	65
1 1315	255		167.		0 .		·-89·	
1 1405	305	334.		7830.	0000 0000 0000 0000 0000 0000	2.7E 04		168
1 1415	315		٥.	~~~~~	-87.		-44.	
1 1505	365	-1503.		1566.		3.0E 04		279
1 1515	375		501.		٥.	** == == ** **	-311.	*** *** *** *
1 1605	425	5678+		-1392.	Pain case game story sufficient	2.4E 04		4491
1 1615	435		167.		87.		89.	-

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SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
PART.075	PART+075	PART.133	PART.133	PART - 237	PART - 237
PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
TSI-023	TSI-023	751-023	TSI-023	TSI-023	TSI-023
222.	222.	96.	96 -	0.	0.
1845.		96.		0,	
	44.		٥,		٥.
2975.		169.		-98.	
	-8 9 .		72.		-12.
4973.		Q.		-37.	
MIN, MAR ARM DEL MAR ARM	0.		-217.		74.
9502.		145.		-12,	
	Ð.	******	0.		37.
1.7E 04		651.	rom the real less cost tool	49.	1/2 test list tes tes 845
	-89.		96.		-25.
2.7E 04		1687.	1631 T T ON 100 TTM 100	12.	and the self-self-self-self-
	-44.	~~~~	24.		0.
3.0E 04		2796.		-37,	
	-3i1.		120.		12.
2.4E 04		4483.		-37.	and the one took date of the
	89,		-145.		12.

AFF- 84 JF-8(PET) VS N-BUTANE 1981 JUNE 2

		SIDE 1	SIDE 2	SIDE 1	SIDE 2
CLOCK	ELAPSED	PART.422	PART+422	PART.750	PART.750
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC
DY HR.	(MIN)	TSI-023	TSI-023	781-023	TSI-023
1 605	-175	٥,	0.	٥.	٥.
1 835	-25	13.		٥.	
1 845	-15		13.		4.
1 1005	65	27.		4.	
1 1015	75		7.		14.
1 1105	125	60.		14.	resulter than and the self-
1 1115	135		20.	-	٥.
1 1205	185	53.		٥.	
1 1215	175	~~~~~	13.		4.
1 1305	245	0.		18.	
1 1315	255		33.		0.
1 1405	305	33.		0.	~ ~ ~ ~ ~ ~ ~
1 1415	315		33.		Ö٠
1 1505	365	7.	~ ~	7.	
1 1515	375		40.		0.
1 1605	425	33.		14.	
1 1615	435		- 13.		0.

----- NO DATA TAKEN

NOTES

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A PROBABLE INTERFERENCE BY FUEL ON OZONE MONITOR.

B ESTIMATED BASELINE

AFF- 85 PROPENE-NOX CONDITIONING 1981, JUNE 3

0600: START FILL. WET:7.0; DRY: 0.0; DEW PT: 5.00; R.H.=30%

0802: INJECTED 11.0 ML NO2

0804: INJECTED 12.0 ML NO

0806: INJECTED 22.5 ML PROPENE

0900: UNCOVER BAG

1400: RUN OVER; BAG DUMPED AND PURGED.

T=0 AT 900 PST

BAG NO. 21 USED

ID INST. AVERAGE S.DEV UNITS

VALUE 30.8 9.7 DEG C DORIC-1

INSTRUMENTS USED

LABEL ID DESCRIPTION DASIBI 1790 OZONE MONITOR 1790 D-1790 4600 B-NOX-1 BENDIX NOX ANALYZER MD8101BX SN300038-2 1800 DORIC-1 DORIC TEMP INDICATOR, SN 61479

CLUCK	ELAPSED	OZONE	ОИ	NO2-UNC	NOX-UNC	T
TIME	TIME	PPH	PPM	PPM	PPM	DEG C
DY HR.	(MIN)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	DORIC-1
1 840	-20	0.002	0.209	0.199	0.420	24.0
1 1400	300	0.682	0.011	0.235	0.236	37.7

----- NO DATA TAKEN

AFF- 86 JP-8(SHALE) VS N-BUTANE 1981 JUNE 4

1620: RUN OVER. BAG DUMPED.

0630: INJECT 5.0 ML NO2
0632: INJECT 18.0 ML NO
0640: DIVIDE BAG
0644: INJECT 385 MICROLITERS JP-8(SHALE) INTO SIDE A.
0708: INJECT 125 ML N-BUTANE INTO SIDE B.
0900: UNCOVER BAG. (T=0)
1300: AIR CONDITIONING BROKE. TEMPERATURE IN CHAMP STATION OVER 100F.
1400: INSTRUMENTS MALFUNCTIONING, EXCEPT TEMPERATURE, UV RAD, AND THE BECKMAN.

0445: START FILL, WET: 7.0; DRY: 0.0; DEW FT: 7.0C; R.H.=18%

T=0 AT 900 PST

ID	INST.	AVERAGE VALUE	S.DEV	UNITS	
т	DORIC-1	39.9	6.0	DEG C	SIDE 1
Ť	DORIC-1	39.9	5.3	DEC C	SIDE 2
UV RAD	EPPLEY-2	3.30	1.09	MW/CM2	
ID	INST.	INITIAL	UNITS		
		CONC.			
NO	B-NOX-1	0.362	PPM	SIDE 1	
NO	B-NOX-1	0.370	PPM	SIDE 2	
NO2-UNC	B-NOX-1	0.148	PPM	SIDE 1	
NO2-UNC	B-NOX-1	0.153	PPM	SIDE 2	
THC	BK6800-1	26.30	PPMC	SIDE 1	
THC	BK6800-1	34.40	PPMC	SIDE 2	
N-C4	DMS-1	5.8260	PPM	SIDE 2	

INSTRUMENTS USED

LABEL DESCRIPTION 1790 D-1790 DASIBI 1790 DZONE MONITOR BENDIX 8101BX NOX ANALYZER; SN300038-2 4600 B-NOX-1 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 AF-LAB; 12" 5% CARBOWAX-600 GC; ECD 4000 ECD-3 4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030 CLIMET 208 OFTICAL FART, CTR; SN:76-148 4350 CLIMET 4400 MRI-388 MRI INTEGRATING NEPHELOMETER MD:1550B 4200 CNC-143 ENV ONE RICH100 CONDENS NUCLEI CTR; SN143 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID 2100 PN-1 RM-121 POROPAK-N GC; FID 2650 VAR 3700 VARIAN BC; 30M SE-54 QUARTZ CAP. BC; FID 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG

AFF- 86 JP-8(SHALE) VS N-BUTANE 1981 JUNE 4

---- NO DATA TAKEN

SIDE 1

			SIDE 1	SIDE 2	SIDE 1	51DE 2	SIDE 1	21DF 2	511
C	Lack	ELAPSED	OZONE	OZONE	ОИ	מא	NO2-UNC	NO2-UNC	NOX-
	TIME	TIME	PPM	PPM	P P M	PPM	P:P:M	PPM	PF
ĐΥ	HR.	(MIM)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	B~NC
1	605	-175	0.002	0.002	0.005	0.005	0.005	0.005	0.
î	335	-25	0.012 A		0.362		0.148		۰ ٥
1	845	-15		0.000		0.370		0.153	
1	1005	65	0.025		0.114		0.355		٥.
1	1015	75		0.007		0.187		0.325	
1	1105	125	0.280		0.010		0.377		٥.
1	1115	135		0.029		0.061		0.376	
1	1205	185	0.670		0.009		0.212		٥.
1	1215	195		0.100		0.018		0.405	
1	1305	245	0.729		0.010		0.121		٥.
1	1315	255		0.192		0.010		0.354	
1	1405	305	0.704 B		0.012 B		0.100		٥.
i	1415	315		0.374 B		0.018		0.435 B	
1	1505	365	0.632		0.032		0.089		٥.
1	1515	375		0.451		0.042		0.420	
	1605	425	806.0		0.051		0.062	-	٥.
1	1615	435		0.544		0.042		0.369	
			0.105.4	CIBE O		SIDE 1	SIDE 2	SIDE 1	SII
-	u nov	EL ADOED	SIDE 1 T	SIDE 2 T	UV RAD	CONDENS	CONDENS	#PART>.3	#PAF
	LOCK	ELAPSED			MW/CM2	10E3/CC	10E3/CC	PART/CC	PART
	TIME	TIME	DEG C	DEG C	EPPLEY-2	CNC-143	CNC-143	CLIMET	CL1
IJΥ	HR.	(MIN)	DORIC-1	DORIC-1	EFFLET-2	CNC-143	CKC-143	CLINE	
1	605	-175	27.2	27.2		0.0	0.0	٥.	
1	835	-25	33.8			14.2	## ma ## ma ## ##	0.	
1	845	-15		36.2			0.0		
	1005	65	38.2		3.00	12.4		٥.	
	1015	75		40.4	3.91		0.0		
	1105	125	41.0		4.55	10.9		11.	
	1115	135		41.1	4+68		0.0		
	1205	185	43.5		4.06	8.7		426.	
	1215	195		43.5	4.00		0.0	AAO	1
	1305	245	44.5		3.91	6.6		449.	
	1315	255		42.9	3.87		0.0		
	1405	305	44.8		3.46	3.6		4. B	
	1415	315		43.7	3.37		0.0	A	
	1505	365	45.3		2.54	2.2		4.	
	1515	375		43.4	2.36		0.0	A.C. C	
	1605	425	40.5		1.37	1.2		409.	
1	1615	435		40.4	1.18		0.0	- w	

SIDE 1

SIDE 2

SIDE 2

SIDE 1

SIDE 2

SII

2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 2
_	NO2-UNC		NOX-UNC	NOX-UNC	THC	THC	N-C4
ł	PPM	PPM	FFM	FFM	PPMC	PPMC	PPM
1	B~NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	BK6800-1	BK6800-1	DMS-1
,			0.040	0.010	0.95	0.95	0,0013
5	0.005	0.005	0.010	0.010	26.30		
-	0.148		0.510	0.520	20100	34.40	5.826
0		0.153		0.520	25.10		
-	0.355	143 1144 1144 1144 1144 1144 1144 1144	0.479	0.512	23.10	34.10	3.448 C
7		0.325		0+312	23.00		
-	0.377		0.369	0.430		33.50	2,414 C
1		0.376		V+43V	20.00		
-	0.212		0.211		20.00	33.30	1.978 C
. 8		0.405		0.403	18.50		AND ADD THE THE THE
	0.121		0.125		10+20	32,90	1.889 C
0		0.354		0.350	17.70	32170	
L	0.100		0.107 B		17.70	32.40	5.416
8		0.435 B		0.435 B	16.80	02.TV	
-	0.089		0.111	0.443	10+00	32.10	
42		0.420		V.443	16.90		
	0.062	140 Mar 140 Mar 174 Mar	0.108	0.400	20.70	32.20	
42		0.369		0.400		02120	
	erne o	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
1	SIDE 2	#PART>.3	#PART>.3	#PART>.5	#PART>.5	#PART>1	#PART>1
NS	CONDENS	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
CC	10E3/CC	CLIMET	CLIMET	CLIMET	CLIMET	CLIMET	CLIMET
43	CNC-143	CLINET	CLINE	U	•		
0	0.0	٥,	0.	0.	0.	0.	0 +
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9		11.		0.		0.	
<u></u>	0.0		٥.		0.		0.
7		426.		212.		12.	
	0.0		15.		0.		0.
6		449.		300.		54.	
	0.0		6. 1	B	0.	В	0+
6		4. B		3. E		4.	B
Ĭ	0.0		8.		Q .		0. B
2		4.		2.		3.	
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2		409.		225.		21.	
		*			Δ.		0.

0.0

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AFF- 86 JP-8(SHALE) VS N-BUTANE 1981 JUNE 4

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 BSCAT 10-4 M-1 MRI-388	SIDE 2 FSCAT 10-4 M-1 MRI-388	SIDE 1 AER.V UM3/CC TSI-023	SIDE 2 AER.V UM3/CC TSI-023	SIDE 1 AER·N PART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SIB AER UM2 TSI-
1 605	-175	0.0	0.0	1.	1.	4921.	4921.	41
1 730	-90			MG 1000 that 1000 place 1440				
1 835	-25	0.1		-1.		3.9E 04		7
1 845	~15		0.2		3.		799.	
1 1005	65	0.2		5.		6.9E 04		43.
1 1015	75		$\tilde{0}\cdot 2$		2.		1325.	
1 1105	125	2.2		16.		7.0E 04		113
1 1115	135		0.2		₹.		-262.	
1 1205	185	18.0		28.		8.1E 04		171!
1 1215	195		0.5		-1.		2005.	
1 1305	245	25.0		27.		6.7E 04		153
1 1315	255	00.0	0.8	4.5	4.		-84.	4.001
1 1405	305 715	22.0		18.		4.4E 04		108
1 1415	315 365	18.0	0.0	12.	1.		1001.	781
1 1505 1 1515	305 375	18+0	1.0	12.	-2.	2.6E 04	264.	78
1 1605	3/3 425	7.8	1.0	16.	-2+	1.5E 04	204.	60
		/+0	0.3	10.	3.	1+36 04	89.	
i 1615	435		V + 3		J+		87.	
		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDI
CLOCK TIME DY HR.	ELAPSED TIME (MIN)	N-C11 PPM VAR 3700	N-C11 FPM VAR 3700	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700	N-C13 PPM VAR 3700	N-C PPI VAR
TIME DY HR.	TIME (MIN)	N-C11 PPM VAR 3700	N-C11 FPM VAR 3700	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700	N-C13 PPM VAR 3700	N-C PFI VAR
TIME DY HR. 1 605	TIME (MIN) -175	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700	N-C13 FFM VAR 3700	N-C13 PPM VAR 3700	N-C PFI VAR
TIME DY HR. 1 605 1 730	TIME (MIN) -175 -90	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700	N-C13 PPM VAR 3700	N-C13 PPM VAR 3700	N-C PPI VAR :
TIME DY HR. 1 605 1 730 1 835	TIME (MIN) -175 -90 -25	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700	N-C12 PPM VAR 3700 	N-C12 FPM VAR 3700	N-C13 PPM VAR 3700	N-C13 PPM VAR 3700 	N-C PPI VAR :
TIME DY HR. 1 605 1 730 1 835 1 845	TIME (MIN) -175 -90 -25 -15	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700 0.0965	N-C13 FPM VAR 3700 0.0455	N-C13 PPM VAR 3700 0.0455 	N-C PPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005	TIME (MIN) -175 -90 -25 -15 -65	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700	N-C12 PPM VAR 3700 0.0965	N-C12 FPM VAR 3700	N-C13 PPM VAR 3700	N-C13 PPM VAR 3700 	N-C PPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015	TIME (MIN) -175 -90 -25 -15 -65 -75	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 0.1551	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700 0.0965 0.0974	N-C13 FPM VAR 3700	N-C13 PPM VAR 3700 0.0455 0.0454	N-C PPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015 1 1105	TIME (MIN) -175 -90 -25 -15 -65 -75 125	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 0.1551	N-C12 PPM VAR 3700 	N-C12 FPM VAR 3700 0.0965 0.0974	N-C13 FPM VAR 3700	N-C13 PPM VAR 3700 0.0455 0.0454	N-C PPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015 1 1105 1 1115	TIME (MIN) -175 -90 -25 -15 65 75 125 135	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700	N-C13 PPM VAR 3700 0.0455 0.0454	N-C PPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015 1 1105	TIME (MIN) -175 -90 -25 -15 -65 -75 125	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700	N-C13 PPM VAR 3700 0.0455 0.0454	N-C PPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205	TIME (MIN) -175 -90 -25 -15 65 75 125 135	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700	N-C13 PPM VAR 3700 0.0455 0.0454	N-C FPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215	TIME (MIN) -175 -90 -25 -15 65 75 125 135 185 195	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700	N-C13 PPM VAR 3700 0.0455 0.0454	N-C FPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305	TIME (MIN) -175 -90 -25 -15 -65 75 125 135 185 195 245	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 	N-C12 PPM VAR 3700 0.0965 0.0977 C.0828	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700 0.0455 0.0426 0.0386	N-C13 PPM VAR 3700 0.0455 0.0454	N-C PPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305 1 1315 1 1405 1 1415	TIME (MIN) -175 -90 -25 -15 -65 75 125 135 195 245 255 305 315	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 	N-C12 PPM VAR 3700 0.0965 0.0977 C.0828	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700 0.0455 0.0426 0.0386	N-C13 PPM VAR 3700 0.0455 0.0454	N-C PPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015 1 1105 1 1205 1 1215 1 1305 1 1315 1 1405 1 1415 1 1505	TIME (MIN) -175 -90 -25 -15 -65 725 135 185 195 245 245 255 305 315	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700	N-C13 PPM VAR 3700 0.0455 0.0454	N-C PPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015 1 1105 1 1205 1 1215 1 1305 1 1405 1 1415 1 1505 1 1515	TIME (MIN) -175 -90 -25 -15 -15 125 135 195 245 245 255 305 315 365 375	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 	N-C12 PPM VAR 3700	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700 0.0455 0.0426 0.0386	N-C13 PPM VAR 3700 0.0455 0.0454	N-C PPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015 1 1105 1 1205 1 1215 1 1305 1 1315 1 1405 1 1505 1 1515 1 1605	TIME (MIN) -175 -90 -25 -15 65 725 1235 185 195 245 245 305 315 325 425	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 	N-C12 PPM VAR 3700 0.0965 0.0977 C.0828 0.0981	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700 0.0455 0.0426 0.0386 0.0564	N-C13 PPM VAR 3700 0.0455 0.0454	N-C FPI VAR
TIME DY HR. 1 605 1 730 1 835 1 845 1 1005 1 1015 1 1105 1 1205 1 1215 1 1305 1 1405 1 1415 1 1505 1 1515	TIME (MIN) -175 -90 -25 -15 -15 125 135 195 245 245 255 305 315 365 375	N-C11 PPM VAR 3700	N-C11 PPM VAR 3700 0.1584 	N-C12 PPM VAR 3700 0.0965 0.0977 C.0828 0.0981	N-C12 FPM VAR 3700	N-C13 FPM VAR 3700 0.0455 0.0426 0.0386 0.0564	N-C13 PPM VAR 3700 0.0455 0.0454	N-C FPI VAR

---- NO DATA TAKEN

13

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2 2	SIDE 1					
	DIDE I	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
V	AER.N	AER.N	AER.S	AER.S	N-C10	N-C10
CC	PART/CC	PART/CC	UM2/CC	UM2/CC	PPM	PPM
23	TSI-023	TSI-023	TSI-023	TSI-023	VAR 3700	VAR 3700
	4921.	4921.	45.	45.		
					0.1408	0.1408
	3.9E 04		71.			
5.		799.		36.		
	6.9E 04		434.		*** *** *** *** ***	0.1437
<u>.</u>		1325.		23.	other both about being years	
	7.0E 04		1133.		0.1305	
5.	0 45 04	-262.	and non-sen ten und buy	32.		
	8.1E 04		1715.			
		2005.		4.		
	6.7E 04		1533.		0.1144	
	4.4E 04	-84.	1005	51.		
	4.46 04		1035.			
	2.6E 04	1001.		12.		
	2+00 04	264.	789.		0.1077	~
	1.5E 04	204.		-21.		
,	1+36 04		600.			
)	THE DE ME OF THE CA	89.	1004 5106 500° 7106 1400 3100	35.	***************************************	
2	SIDE 1	SIDE 2	SIDE 1	SIDE 1	SIDE 1	SIDE 2
2	N-C13	N-C13	N-C14	124TMEBZ	CO	CO
	P P M	PPM	PPM	PPM	PPM	PPM
700						
,, ,,	VAR 3700	VAR 3700	VAR 3700	VAR 3700	BK6800-1	BK6800-1
		make made have made appear		VAR 3700	BK6800-1 0.91	BK6800-1 0.91
 65	0.0455	0.0455				
 65	0.0455	0.0455	0.019	0.0306	0.91	0.91
65 	0.0455	0.0455	0.019	0.0306	0.91	0.91
65 74	0.0455	0.0455 0.0454	0.019	0.0306	0.91	0.91
65	0.0455	0.0455	0.019	0.0306	0.91	0.91
65 74	0.0455	0.0455 0.0454	0.019	0.0306 0.0262	0.91	0.91
65	0.0455	0.0455	0.019	0.0306	0.91	0.91 0.90
65 74	0.0455	0.0455	0.019	0.0306 0.0262 0.0234	0.91	0.91 0.90 0.94
65	0.0455	0.0455	0.019	0.0306	0.91 0.93 0.98 	0.91 0.90 0.94
65	0.0455	0.0455	0.019	0.0306 0.0262 0.0234	0.91 0.93 0.98 	0.91 0.90 0.94
65 74	0.0455	0.0455	0.019	0.0306	0.91 0.93 0.94 0.98 1.02 1.14	0.91 0.90 0.94 0.93
65	0.0455	0.0455	0.019	0.0306	0.91 0.93 0.98 	0.91 0.90 0.94 0.93
65 74	0.0455	0.0455	0.019	0.0306	0.91 0.93 0.94 0.98 1.02 1.14 1.18	0.91 0.90 0.94 0.93 1.02
65 74	0.0455	0.0455	0.019	0.0306	0.91 0.93 0.94 0.98 1.02 1.14	0.91 0.90 0.94 0.93 1.02
65	0.0455	0.0455	0.019	0.0306	0.91 0.93 0.94 0.98 1.02 1.14 1.18	0.91 0.90 0.94 0.93 1.02
65 74	0.0455	0.0455	0.019	0.0306	0.91 0.93 0.94 0.98 1.02 1.14 1.18	0.91 0.90 0.94 0.93 1.02

.

AFF- 86 JP-8(SHALE) VS N-BUTANE 1981 JUNE 4

		ATT 1	0105 0	0.755	M. T. W	0.7 m.m. m	2555	~ *
01.001		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 2	SIDE 2	SI
CLOCK	ELAPSED		FAN	нсно	нсно	ACETALD	ACETONE	PAR
TIME	TIME	PPM	PPM_	PPM	PPM	PPM	PPM	PAR
DY HR.	(MIN)	ECD-3	ECD-3	CA	CA	10'C-600	10'C-600	TSI
1 605	-175	0.000	0.000			0.0043	0.0012	21
1 810	-50			0.036	0 4 0 0 6	~~~~	~~~~~	
1 835	-25	0.000					~~~~~	3.
1 845	-15		0.000					
1 1005	65	0.002						2.
1 1015	75		0.012					
1 1105	125	0.035						51
1 1115	135		0.016					
1 1200	180			0 065	0.017			
1 1205	185	0.080						95
1 1215	195		0.031					
1 1305	245	0.104						88
1 1315	255		0.047					
1 1405	305	0.054 B						68
1 1415	315		0.030 B		****			
1 1505	365				***	~ ~ ~ ~ ~ ~ ~		-1
1 1515	375							
1 1605	425							6
1 1610	430			0.046	0.059		-	
1 1615	435		~~~~~			0.2365		
+ *O*O	1.50					V + & 3 0 J		
1 1010	100					V+2363		
1 1010	100							
		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIRE 1	SIDE 2	SI
сьоск	ELAPSED	PART.075	PART.075	PART.133	SIDE 2 PART.133	SIRE 1 PART.237	PART.237	SI PAR
CLOCK TIME	ELAPSED TIME	PART.075 PART/CC	PART.075 PART/CC	PART.133 PART/CC	SIDE 2 PART.133 PART/CC	SIPE 1 PART.237 PART/CC	PART.237 PART/CC	SI PAR PAR
сьоск	ELAPSED	PART.075	PART.075	PART.133	SIDE 2 PART.133	SIRE 1 PART.237	PART.237	SI PAR
CLOCK TIME DY HR.	ELAPSED TIME (MIN)	PART.075 PART/CC TSI-023	PART.075 PART/CC TSI-023	PART.133 PART/CC TSI-023	SIDE 2 PART.133 PART/CC TSI-023	SIPE 1 PART.237 PART/CC TSI-023	PART.237 PART/CC TSI-023	SI PAR PAR
CLOCK TIME DY HR. 1 605	ELAPSED TIME (MIN) -175	PART.075 PART/CC TSI-023	PART.075 PART/CC	PART.133 PART/CC TSI-023	SIDE 2 PART.133 PART/CC	SIRE 1 PART.237 PART/CC TSI-023	PART.237 PART/CC	SI PAR PAR
CLOCK TIME DY HR. 1 605 1 835	ELAPSED TIME (MIN) -175 -25	PART.075 PART/CC TSI-023	PART.075 PART/CC TSI-023	PART.133 PART/CC TSI-023	SIDE 2 PART.133 PART/CC TSI-023	SIPE 1 PART.237 PART/CC TSI-023	PART.237 PART/CC TSI-023	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845	ELAPSED TIME (MIN) -175 -25 -15	PART.075 PART/CC TSI-023 666. 755.	PART.075 PART/CC TSI-023	PART.133 PART/CC TSI-023 96. -265.	SIDE 2 PART.133 PART/CC TSI-023	SIPE 1 PART.237 PART/CC TSI-023 74. 135.	PART.237 PART/CC TSI-023	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845	ELAPSED TIME (MIN) -175 -25	PART.075 PART/CC TSI-023 666. 755.	PART.075 PART/CC TSI-023 666. 	PART.133 PART/CC TSI-023 96. -265.	SIDE 2 PART.133 PART/CC TSI-023 96.	SIPE 1 PART.237 PART/CC TSI-023 74. 135.	PART.237 PART/CC TSI-023	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845 1 1005	ELAPSED TIME (MIN) -175 -25 -15 65	PART.075 PART/CC TSI-023 666. 755. 1.1E 04	PART.075 PART/CC TSI-023 666. 	PART.133 PART/CC TSI-023 96. -265. 169.	SIDE 2 PART.133 PART/CC TSI-023 96.	SIPE 1 PART.237 PART/CC TSI-023 74. 135.	PART.237 PART/CC TSI-023 74. 	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015	ELAPSED TIME (MIN) -175 -25 -15 -65 75	PART.075 PART/CC TSI-023 666. 755. 1.1E 04	PART.075 PART/CC TSI-023 666. -444.	PART.133 PART/CC TSI-023 96. -265. 169.	SIDE 2 PART.133 PART/CC TSI-023 96. 313.	SIPE 1 PART.237 PART/CC TSI-023 74. 135. 	PART.237 PART/CC TSI-023 74. -37. 	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105	ELAPSED TIME (MIN) -175 -25 -15 -65 -75 125	PART.075 PART/CC TSI-023 666. 755. 1.1E 04 5.1E 04	PART.075 PART/CC TSI-023 666. 	PART.133 PART/CC TSI-023 96. -265. 169. 	SIDE 2 PART.133 PART/CC TSI-023 96. 313.	SIPE 1 PART.237 PART/CC TSI-023 74. 135. 	PART.237 PART/CC TSI-023 74. -37. 	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1115	ELAPSED TIME (MIN) -175 -25 -15 -65 75 125 135	PART.075 PART/CC TSI-023 666. 755. 1.1E 04 5.1E 04	PART.075 PART/CC TSI-023 666. -444. 0.	PART.133 PART/CC TSI-023 96. -265. 169. 	SIDE 2 PART.133 PART/CC TSI-023 96. 313. 24. 48.	SIPE 1 PART.237 PART/CC TSI-023 74. 135. 	PART.237 PART/CC TSI-023 74. -37. 	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205	ELAPSED TIME (MIN) -175 -25 -15 65 75 125 135 185	PART.075 PART/CC TSI-023 666. 755. 1.1E 04 5.1E 04 6.1E 04	PART.075 PART/CC TSI-023 666. 444. 0.	PART.133 PART/CC TSI-023 96. -265. 169. 2796. 1.1E 04	SIDE 2 PART.133 PART/CC TSI-023 96 313 24 48.	SIPE 1 PART.237 PART/CC TSI-023 74. 135. 	PART.237 PART/CC TSI-023 7437 0	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845 1 1005 1 1105 1 1105 1 1205 1 1215	ELAPSED TIME (MIN) -175 -25 -15 -65 75 125 135 185 195	PART.075 PART/CC TSI-023 666. 755 1.1E 04 5.1E 04 6.1E 04	PART.075 PART/CC TSI-023 666. -444. 0. 222.	PART.133 PART/CC TSI-023 96. -265. 169. 2796. 1.1E 04	SIDE 2 PART.133 PART/CC TSI-023 96. 313. 48. 120.	SIPE 1 PART.237 PART/CC TSI-023 74. 13549 49.	PART.237 PART/CC TSI-023 7437 074.	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1205 1 1215 1 1305	ELAPSED TIME (MIN) -175 -25 -15 65 75 125 135 185 195 245	PART.075 PART/CC TSI-023 666. 755. 1.1E 04 5.1E 04 6.1E 04 4.6E 04	PART.075 PART/CC TSI-023 666 0 222.	PART.133 PART/CC TSI-023 96. -265. 169. 2796. 1.1E 04 1.2E 04	SIDE 2 PART.133 PART/CC TSI-023 96 313 48 120.	SIPE 1 PART.237 PART/CC TSI-023 74. 13549 49 37.	PART.237 PART/CC TSI-023 74 0 0.	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305 1 1315	ELAPSED TIME (MIN) -175 -25 -15 65 75 125 135 185 195 245 255	PART.075 PART/CC TSI-023 666. 755. 1.1E 04 5.1E 04 6.1E 04 4.6E 04	PART.075 PART/CC TSI-023 666. -444. 0. 222. 44.	PART.133 PART/CC TSI-023 96. -265. 169. 2796. 1.1E 04 	SIDE 2 PART.133 PART/CC TSI-023 96 313 48 120 24.	SIPE 1 PART.237 PART/CC TSI-023 74. 13549 37.	PART.237 PART/CC TSI-023 74 0 0.	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1205 1 1215 1 1205 1 1305 1 1315 1 1405	ELAPSED TIME (MIN) -175 -25 -15 65 75 125 135 185 195 245 255 305	PART.075 PART/CC TSI-023 666. 755. 1.1E 04 	PART.075 PART/CC TSI-023 666. -444. 0. 222. 44.	PART.133 PART/CC TSI-023 96. -265. 169. 2796. 1.1E 04 9833.	SIDE 2 PART.133 PART/CC TSI-023 96 313 48 120 24.	SIPE 1 PART.237 PART/CC TSI-023 74. 13549 37283.	PART.237 PART/CC TSI-023 743707474 098.	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845 1 1005 1 1105 1 1105 1 1205 1 1215 1 1305 1 1315 1 1405 1 1415	ELAPSED TIME (MIN) -175 -25 -15 65 75 125 135 185 195 245 255 305 315	PART.075 PART/CC TSI-023 666. 755. 1.1E 04 5.1E 04 4.6E 04 3.0E 04	PART.075 PART/CC TSI-023 666. 444. 0. 0. 222. 44.	PART.133 PART/CC TSI-023 96. -265. -169. -2796. -1.1E 04 -1.2E 04 9833.	SIDE 2 PART.133 PART/CC TSI-023 96 313 48 120 24 0,	SIPE 1 PART.237 PART/CC TSI-023 74. 13549 37283.	PART.237 PART/CC TSI-023 7437 074 0 098.	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 845 1 1005 1 1105 1 1115 1 1205 1 1215 1 1305 1 1315 1 1405 1 1415 1 1505	ELAPSED TIME (MIN) -175 -25 -15 65 125 135 185 195 245 255 305 315 365	PART.075 PART/CC TSI-023 666. 755 1.1E 04 5.1E 04 4.6E 04 3.0E 04 1.3E 04	PART.075 PART/CC TSI-023 666. 444. 0. 222. 44.	PART.133 PART/CC TSI-023 96. -265. -169. -2796. -1.1E 04 -1.2E 04 -9833. -9519.	SIDE 2 PART.133 PART/CC TSI-023 96. 313. 24. 48. 120. 24. 0,	SIPE 1 PART.237 PART/CC TSI-023 74. 13549 37 283 271.	PART.237 PART/CC TSI-023 74373774747898.	SI PAR PAR TSI
CLOCK TIME DY HR. 1 605 1 835 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305 1 1405 1 1415 1 1505 1 1515	ELAPSED TIME (MIN) -175 -25 -15 65 725 125 135 185 195 245 255 305 315 365 375	PART.075 PART/CC TSI-023 666. 755 1.1E 04 5.1E 04 4.6E 04 3.0E 04 1.3E 04	PART.075 PART/CC TSI-023 666444 0 222 444 444.	PART.133 PART/CC TSI-023 96. -265. -169. -2796. -1.1E 04 -1.2E 04 -9833. -9519.	SIDE 2 PART.133 PART/CC TSI-023 96. 313. 24. 48. 120. 24. 0. -72.	SIPE 1 PART.237 PART/CC TSI-023 74. 13549 37 283 271.	PART.237 PART/CC TSI-023 7437074 098 037.	SI PAR PAR TSI

----- NO DATA TAKEN

SIDE 2 ACETALD PPM 10'C-600	SIDE 2 ACETONE PPM 10'C-600	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 PART.024 PART/CC TSI-023	SIDE 1 PART.042 PART/CC TSI-023	SIDE 2 PART.042 PART/CC TSI-023
0.0043	0.0012	2171.	2171.	1914.	1914.
0.0043	V+VV12	~1/14			
		3.6E 04		2697.	
			501.		435.
		2.7E 04		3.1E 04	
			668.		609.
		5177.		1.1E 04	
			0.	hade prop. bods. 140 5700 5570	-261.
		~			
		9519.		-174+	
			1837.		-174.
		8851.		348.	
			0.		-174.
		6847.		-2175.	****
			1336.		-783.
		-167.		3654.	
			-167.		174.
		-668.		-870.	
0.2365			-167.		174.
m 7 m m J	0.755 0	CIDE 4	SIDE 2	SIDE 1	SIDE 2
SIDE 1	SIDE 2	SIDE 1 PART.422	PART.422	FART.750	PART.750
PART - 237	PART.237 PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
PART/CC	7SI-023	TSI-023	TSI-023	TSI-023	TSI-023
ES0-18T	151-023	151-023	151025	101 020	101 010
74.	74.	0.	0.	٥.	0.
135.	, , , , , , , , , , , , , , , , , , ,	-53.		0.	
**************************************	-37.		20.		11.
-49.		40.		0.	
	0.		20.		4,
0.		13.		0.	
	-74.		0.		25.
49.		33.		0.	** ** ** ** **
	0.		7.		-7.
37.		40.		0.	
	-98.		120.		٥.
283.		-67.		٥.	
	0.		0.		4.
271.		-7.		-21.	
	-37.		-33.		٥.
135.		-40.		25.	
	74.		-13.		14.

AFF- 86 JP-8(SHALE) VS N-BUTANE 1981 JUNE 4

NOTES

- A PROBABLE INTERFERENCE BY FUEL ON OZONE READINGS.
- B DATA QUESTIONABLE FOR REMAINDER OF RUN DUE TO AIR CONDITIONER FAILURE.
- C DATA QUESTIONABLE; MUCH SLOWER N-BUTANE CONSUMPTION RATE EXPECTED.

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AFF- 87 OZONE DECAY 1981, JUNE 5-8

DAY 1 (JUNE 5)

0905: FILL STARTED. WET: 6.5; DRY: 0.0

1100: INJECTED "9.5 LITERS OF 2.5% 03.

(JUNE 8)

0710: BAG IS 80 TO 85% FULL.

RESULTS: 03 DECAY RATE = 0.40 %/HR

T=0 AT 1140 PST

BAG NO. 22 USED

INSTRUMENTS USED

ID LABEL DESCRIPTION 1790 D-1790 DASIBI 1790 OZONE MONITOR

CLOCK ELAPSED OZONE TIME TIME PPM DY HR. (MIN) D-1790

1 1140 0 2.282

710 4050 1.738

NO DATA TAKEN

AFF- 88
PROPENE/NOX CONDITIONING
1981, JUNE 8

0840: STARTED FILL. WET: 6.5; DRY: 0.0; DEW PT: 7.8C) R.H.=21%

0945: INJECTED 11.0 ML NO2.

0947: INJECTED 12.0 ML NO.

0949: INJECTED 22.5 ML PROPENE

1010: UNCOVER BAG (T=0)

1510: RUN OVER; Pan DUMPED.

T=0 AT 1010 FST

BAG NO. 22 USED

ID INST. AVERAGE S.DEV UNITS

VALUE

T DORIC-1 38.3 3.1 DEG C UV RAD EPPLEY 3.38 0.89 MW/CH2

INSTRUMENTS USED

ID LABEL DESCRIPTION

1790 D-1790 DASIBI 1790 UZONE MONITOR

4600 B-NOX-1 BENDIX NOX ANALYZER MD8101BX SN300038-2

1800 DORIC-1 DORIC TEMP INDICATOR, SN 61479

4000 ECD-3 AF-LAB; 12° 5% CARBOWAX-600; FID

4130 EPPLEY ARB LAB; EPPLEY 11692 UV RADIOMETER

3000 CA CHOOMOTROPIC ACID HCHO ANALYSIS

CLOCK	ELAPSED	OZONE	ОМ	M02-UNC	NOX-UNC	Ť	UV RAD	F AN	HCH
TIME	TIME	PPM	PPM	PPM	FFM	DEG C	MW/CM2	PPM	PPM
DY HR.	(MIN)	D-1790	B-NOX-1	B-NOX-1	3-NOX-1	1-01500	EFFLEY	ECD-3	CA
1 1005	-5	0.000	0.220	0.183	0.412	32.7		0.003	
1 1008	-2								0.0
1 1110	60	0.019	0.107	0.292	0.402	37.0	4.27		
1 1210	120	0.166	0.019	0.350	0.353	40.0	4.00		
1 1310	180	0.391	0.011	0.288	0.288	40.4	3.64		
1 1416	240	0.584	0.011	0.241	0,241	41.0	2.96		
1 1500	290								0.1
1 1510	300	0.698	0.010	0.211	0.211	38.6	2.05	0.144	

----- NO DATA TAKEN

0728: START FILL. WET: 6.0; DRY: 0.0; DEW PT: 10,1C; R.H.=31%

0904: INJECTED 6.2 ML NO2

0906: INJECTED 20.0 ML NO

0908: INJECTED .46 ML PROPENE AND .46 ML PROPANE.

1030: UNCOVER BAG (T=0)

1230: END RUN; BAG DUMPED.

RESULTS:

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CALC. AVG. OH = 30.8 * D LM(PROPANE/PROPENE)/DT = $0.055(\pm-0.006)$ PFT CALC. RAD. INPUT = 16.0 * (AVG.OH) * (60+MIN.AVG.NO2) = 0.10 PPB/MIN NO OXIDATION RATE NEGLIGABLE

T=0 AT 1030 PST

BAG NO. 22 USED

£D	INST.	AVERAGE	S.DEV	UNITS
		VALUE		
T	DORIC-1	33.9	2.7	DEG C
UV RAD	EPPLEY	4.12	0.17	MMNCHS
ID	INST.	INITIAL	UNITS	
		CONC.		
ИО	B-NOX-1	0.350	PPM	
NO2-UNC	B-NOX-1	0.118	PPM	
PROPANE	DMS-1	0.0106	PPM	
PROPENE	DMS-1	0.0098	PPM	

INSTRUMENTS USED

ID LABEL	DESCRIPTION
1790 D-1790	DASIBI 1790 OZONE MONITOR
4600 B-NOX-1	BENDIX NOX ANALYZER MDB101BX SN300038-2
4850 BK6200-1	BECKMAN HYDROCARBON GC MD 6800 SN100015D
1800 DORIC-1	DORIC TEMP INDICATOR, SN 61479
4000 ECD-3	AF-LAB; 12° 5% CARBOWAX-600; FID
4130 EPPLEY	ARB LAB; EPFLEY 11692 UV RADIOMETER
2100 PN-1	RM 121; POROPAK N ; FID
2720 10'0-600	RM-121; 10' 10% CARBOWAX-600; FID
2200 DMS-1	RM-121; DIMETHYLSULFOLANE; FID
3000 CA	CHROMOTROPIC ACID HCHO ANALYSIS

AFF- 89 NOX-AIR IRRADIATION 1891, JUNE 9

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CLOCK TIME	ELAPSED TIME	OZONĒ PPM	NO PPM	NO2-UNC PPM	NOX-UNC PPM	PROPANE PPM	PROPENE PPM
DY HR.	(MIN)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	DMS-1	DMS-1
1 925 1 1005	-65 -25			100 201 100 200 178 126 201 200 200 100 100 100		0.0087 0.0099	0.0082 0.0095
1 1015 1 1030	-15 0	-0.003	0.350	0.118	0.470	0.0104	A 0000
1 1045	15	-0.002	0.358	0.120	0.481	0.0106	0.0098 0.0094
1 1100	30 45	-0.002 -0.001	0.358 0.355	0.118 0.121	0.478 0.482	0.0099 0.0111	0.0089 0.0095
1 1130	60	-0.001	0.360	0.119	0.478	0.0092	0.0077
1 1145 1 1200	75 90	-0.001 -0.001	0.356 0.357	0.120 0.112	0.480 0.471	0.0114 0.0119	0.0091 0.0089
i 1215 i 1230	105 120	-0.001	0.360	0.121	0.485	0.0111	0.0086
1 1230	120	-0.001	0.356	0.112	0.472	0.0112	9.0086
CLOCK TIME DY HR.	ELAFSED TIME (MIN)	METHANE PFM BK6800-1	ETHENE PPM PN-1	ΓΟ PPM BK6800-1	HCHO PPM CA	ACETALD PPM 10'C-600	
4 005							
1 925 1 1000	-65 -30		0.0021		0.015	0.0099	
1 1015	-15	1.89		1.47	~~~~	~	
1 1045	15	1.90		4.52	400 Mar 400 May 440 May	the open of the same as	
1 1100	30	1.89		1.52		-	
1 1115	45 60	1.88 1.89		1.50 1.55	organism can can see the		
1 1145	90 75	1.90		1.53			
1 1200	90	1.90		1.63			

1.64

0.010

0.0123

1.57

0.0018

LNC3/

0.05

0.07 0.10 0.10 0.15 0.17 0.22 0.28 0.25

----- NO DATA TAKEN

105

110

120

1.89

1.90

1 1215

1 1220

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	0.0087	0.0082	0.0552				
	0.0099	0.0095	0.0371	28.4		0.002	1.46
.470	0.0106	0.0098	0.0777	ages made here which takes			
.481	0.0104	0.0094	0.1065	31.6 33.4	4.09 4.09		1.40 1.34
,478	0.0099 0.0111	0.0089 0.0095	0.1026 0.1552	33.6	4.18		1.64
.482 .478	0.0092	0.0077	0.1792	34.3	4.36		1,66
.480	0.0114	0.0091	0.2230	35.2	4.27		1.78 1.84
.471	0.0119	0.0089	0.2814	35.^ 37.1	3.82 4.14		1.72
.485	0.0111 0.0112	0.0086	0.2560 0.2620	36.8	4.00	0.002	1.79
ICHO PPM	ACETALD MPM						
CA	10'0-600						
) 	0.0099						

0.015

0.010

0.0123

1981, JUNE 10

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1

THC

DAY 1 (JUNE 10)

0445: START FILL. WET: 6.0; DRY: 0.0; DEW PT: -4.9C; R.H.-17%

0628: INJECT 18 ML NO2

0630: INJECTED 5 ML NO

0637: DIVIDED BAG

0652: INJECTED 312 MICROLITERS OF RJ-4 INTO SIDE A.

0711: INJECTED 312 HICROLITERS OF JF-10 INTO SIDE B.

0900: UNCOVER BAG (T=0)

0905: WEATHER: OVERCAST BUT CLEARING.

1100: WEATHER CLEARING, SUN COMING OUT.

1620: SAMPLING ENDED, BAG COVERED.

DAY 2 (JUNE 11)

0900: UNCOVER BAG

0905: WEATHER: FOG AND LOW CLEUDS.

1100: CLOUDS HAVE CLEARED, SUN IS OUT.

1520: RUN OVER, BAG DUMPED.

RESULTS	DAY 1	DAY 2
		Proper dans to the second
AVG.T(DEG.C)	34(+-3)	32(+-4)
AVG.UV(MW/CM2)	2.9(4-0.9)	3.0(+-0.8)

NOTE: NO AND NOX DATA FOR DAY 1 ON SIDE 2 (JP-10) APPEARS TO BE ANOMOLOUS.

T=C AT 900 PST

BAG NO. 22 USED

¥3103

BK6800~1 40.20

INSI.	AVERAGE	S.DEV	URITS	
	VALUE			
DORIC-1	30.1	ó.1	DES C	SIDE 1
DORIC-1	30.5	6.0	DEG C	SIDE 2
EPPLEY-2	2.92	0.82	WM\CH5	
INST.	INITIAL	UNITS		
D 1107 4		E) E: M	OTDE 4	
コードハン・ロ	0.363	444	DIME I	
B-NOX-1	0.356	PPM	SIDE 2	
B-NOX-1	0.118	PPM	SIDE 1	
B-NOX-1	0.115	PPM	SIDE 2	
BK6800-1	31.10	PPMC	SIDE 1	
	DORIC-1 EPPLEY-2 INST. B-NOX-1 B-NOX-1 B-NOX-1 B-NOX-1	UALUE DORIC-1 30.1 DORIC-1 30.5 EPPLEY-2 2.92 INST. INITIAL CONC. B-NOX-1 0.363 B-NOX-1 0.356 B-NOX-1 0.118	UALUE DORIC-1 30.1 6.1 DORIC-1 30.5 6.0 EPPLEY-2 2.92 0.82 INST. INITIAL UNITS CONC. B-NOX-1 0.363 PPM B-NOX-1 0.356 PPM B-NOX-1 0.118 PPM B-NOX-1 0.115 PPM	UALUE DORIC-1 30.1 6.1 DES C DORIC-1 30.5 6.0 DEG C EPPLEY-2 2.92 0.82 MW/CM2 INST. INITIAL UNITS CONC. B-NOX-1 0.363 PPM SIDE 1 B-NOX-1 0.356 PPM SIDE 2 B-NOX-1 0.118 PPM SIDE 1 B-NOX-1 0.115 PPM SIDE 2

PPMC

SIDE 2

AFF- 90 RJ-4 VS. JP-10 1981, JUNE 10

INSTRUMENTS USED

SAMPLING RATE

			KHIL
ID	LABEL	DESCRIPTION	(ML/MIN)
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	R-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
2000	ECD-1	RM-121; 12 5% CARBOWAX-400 GC; ECD	
4300	TSI-023	TS! LLECTRICAL AEROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OFTICAL PART, CTR; SN: 76-148	
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN143	5
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2100	PN-1	RM-121 POROPAK-N GC; FID	
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS	
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FII	1
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	

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CLOCK	ELAPSED	SIDE 1 UZONE	SIDE 2 OZONE	SIDE 1 NO	SIDE 2 NO	SIDE 1 NO2-UNC	SIDE 2 NO2-UNC	SIDE NOX-U
TIME	TIME	PPM	PPM	PPM	PPM	PPM	PPM	PPM
DY HR.	(MIM)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	B-MOX
1 605	-175	0.000	0.000	0.002	0.002	0.002	0.002	0.0
1 835	-25	0.000		0.363		0.118	Mind this time of a fine sur-	0 + 4
1 845	-15		0.000		0.356 4		0.115 A	
1 1005	65	0.000		0.336		0.134		0 . 4
1 1015	75		0.000		0.261		0.107	
1 1105	125	0.002		0.309		0.152		0.4
1 1115	135		0.000	-	0.130		0.078	
1 1205	185	0.002		0.277		0,172		0.4
1 1215	195		0.001		0.056	***	0.050	
1 1305	245	0.005		0.233		0.203	arms notes print party than been	0.4
1 1315	255		0.002		0.041		0.050	
1 1405	305	0.008		0.190		0.237		0 • 4
1 1415	315		0.001		0.042		0.059	
1 1505	365	0.009	-	0.150	*** *** *** ***	0.261		0.4
1 1515	375		0.000		0.039	~~~~	0.067	
1 1605	425	0.008		0.120	-	0.282		0 + 4
1 1615	435		0.000		0.023		0.033	
2 835	1415	0.000		0.100	***************************************	0.294	700 570 AM 400 AT LA	0.3
2 845	1425		0.000		0.101		0.135	
2 1005	1505	0.014		0.094	this one little too this ages	0.292		0.3
2 1015	1515		0.003		0.107		0.134	***
2 1105	1565	0.031		0.072		0.298		0.3
2 1115	1575		0.009	even mark still dide oper	0.058		0.097	
2 1205	1625	0.045		0.049		0.312		0.3
2 1215	1635		0.011		0.038		0.082	****
2 1305	1685	0.076		0.028	\$ 10 Mar PAS THE MAR	0.317	-	0.3
2 1315	1695		0.011	1000 fear time time pain spay	0.030		0.076	
2 1405	1745	0.116		0.017	main them delth plans were fiblic	0.298		0.3
2 1415	1755		0 013		0.030		0.090	
2 1505	1805	0.164		0.010		0.265		0.2
2 1515	1815		0.014	Alta 740 per 400 test 100	0.029	ages Steel tend your auto pure	0.088	

----- NO DATA TAKEN

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E 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIME 1	SIDE 2 THC	
io	N02-UNC	MO2-UNC	MOX-NMC	NOX-UNC	THC PPMC	PPMC	
M	PPM	PPM	PPM 5 MAY 4	FPM TO A	BK6800-1	BK6800-1	
X-1	B-NCX-1	B-NOX-1	B-NOX-1	B-MOX-1	BV0900-I	N/000/0-1	
002	0.002	0.002	0,004	0.004	1.10	1.10	
	0.118		0.483		31.10		
356 A		0.115 A		0.475 A		40.20	
	0.134		0.470		31.20		
261		0.107		0.397		39.80	
	0.152		0.465		31.90		
130		0.078		0.249		40.30	
	0.172		0.454		31.10		
056		0.050		0.106		~ ~ ~	
	0.203		0.442		31.00	_ ~ ~ ~ ~ ~ ~	
.04i		0.050		0.101		40.10	
	0.237		0.431		30.90		
042		0.059		0.098		40.20	
	0.261		0.412		30.60		
039		0.067		0.093		40.00	
	0.282		0.400		30.40		
.023		0.033		0.061		40.00	
	0.294		0.392		30.10		
101		0.135		0.238		39,90	
~~~~	0.292		0.381		29.90		
.107	Mark 100, 31 to 4000 Ft.	0.134	agen many class gamps desire which	0.238		39.20	
	0.298		0.368		29.90		
.058		0.097	put such many seems seems seems	0.144		39.70	
	0.312		0.349		29,60		
.038		0.082		0.112		39.50	
	0.317		0.325		29.00		
.030		0.076		0.099		39.40	
	0.298		0.300		28.60		
.030		0.090		0.111		39.20	
	0.265	and then your mids four time	0.262		28.20		
.029		0.088		0.137		39.10	

AFF- 90 RJ-4 VS. JP-10 1981, JUNE 10

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 T DEG C DORIC-1	SIDE 2 T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	SITE 1 CONDENS 10E3/CC CNC-143	SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 *PART>.3 PART/CC CLIMET	SII #PAF PART CLI
1 605	-175	19.2	19.2		0.0	0.0	٥.	
1 835	-25	21.2			13.0		0.	
1 845	-15		21.4	1000 1000 spr 1984 5000 mag		0.0		
1 1005	65	26.3		2.82	9.1		0.	
1 1015	75		27.4	3.19		1.0		
1 1105	125	30.8		3.64	6.6		0.	
1 1115	135		31.4	3.78		0.7		
1 1205	185	33.7		3.67	5.0		0.	
1 1215	195		35.0	3.82		0.3		
1 1305	245	35.0		3.50	4.6		2.	
1 1315	255	-	36.0	3.50		0.5		4
1 1405	305	37.0		2.63	3.6		79.	
1 1415	315		36.5	2.82		0.4		12
1 1505	365	36.1		2.18	3.2		229.	
1 1515	375		36.0	2.09		0 • 4		18
1 1605	425	33.5		1.37	2.4		308.	
1 1615	435		33.2	1.28		0.4	w - ** ** ** **	24
2 835	1415	20.8		diddo 1795 daubt sapan addit page	0.3		85.	
2 845	1425		20.7			0.2	100 100 1000 END 1000 Acc.	5
2 1005	1505	23.4		1.77	0.3		220.	*** ***
2 1015	1515		24.4	2.20		0.2		5
2 1105	1565	29.0		3.73	0.3		213.	
2 1115	1575		30.0	3.82		0.2		4
2 1205	1625	31.2		3,57	0.2		189.	
2 1215	1635		32.9	3.91		0.1		3
2 1305	1685	33.4		3.55	0.1		159.	
2 1315	1695		33.6	3.46		0.0		3
2 1405	1745	35.6		2.59	0.1		127.	
2 1415	1755		35.2	2.73		0.0		2
2 1505	1805	35.1		2.18	0.0		95.	
2 1515	1815		35.1	2.05		0.0		1

----- NO DATA TAKEN

SIDE 2 CONDENS 10E3/CC CNC-143	SILE 1 *PART>.3 PART/CC CLIMET	SIDE 2 #PART>.3 PART/CC CLIMET	SIDE 1 #PART>.5 PART/CC CLIMET	SIDE 2 #PART>.5 PART/CC CLIMET	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 *PART>1 PART/CC CLIMET
0.0	0. 0. 	0.	0. 0.  0.	0.  0. 	0. 0.  0. 	0. 
0.3	2. 79. 229. 308.	5. 45. 125. 186.	0.  0.  19.	0. 0. 5.	0. 	0. 0. 0.
0.4	85. 220. 213.	240. 54. 52. 45.	30.	32. 1. 5. 	0.	0.  0. 
0.1	189. 159.  127. 	38. 31. 25.	187. 161. 128.	36. 29. 23.	13. 14.  41. 	0.

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AFF- 90 RJ-4 VS. JF-10 1981, JUNE 10

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 BSCAT 10-4 M-1 MRI-388	SIDE 2 BSCAT 10-4 M-1 MRI-388	SIDE 1 AER.V UM3/CC TSI-023	SIDE 2 AER.V UM3/CC T3I-023	SIDE 1 AER.N PART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SI AE UM TSI
1 605	-175	0.2	0.2	5.	5.	-277.	-277.	
1 735	-85							
1 835	-25	0.3		0.		3.9E 04		
1 845	-15		0.9	come cade their being their com-	5.		-324.	
1 1005	65	0.3		4.		5.1E 04		2
1 1015	75	*** *** *** *** ***	1.0		6.		7126.	
1 1105	125	0.5		7.		3.6E 04		3
1 1115	135		1.7		1.	*** *** *** *** ***	4853.	-
1 1205	185	0.8		6.		2.8E 04		4
1 1215	195		1.8		1.		5164.	
1 1305	245	1.8		9.		2.6E 04		4
1 1315	255		1.6		2.		5411.	
1 1405	305	2.8		8.		2.6E 04		4
1 1415	315		1.3		4.		4438.	
1 1505	365	4.0		16.		2.3E 04		5.
1 1515	375		1.5		3.		3737.	
1 1605	425	4.6		10.		2.3E 04		5
1 1615	435	many arts stops says again toler	1.5		5.		4329.	
2 715	1335					~ ~ ~ ~ ~ ~		
2 835	1415	0.8		2.		6795.		
2 845	1425		1.1		4.		5255.	····
2 1005	1505	1.2		4.		5064.		1:
2 1015	1515		1.0		<b>C</b> •		3237.	٠. ـــ .
2 1105	1565	2.0		3.		6087.		10
2 1115	1575		1.2		3.		4736.	
2 1205	1625	2.0		4.		5260.		<b>i</b> (
2 1215	1635	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1.2		2.	-	5739.	
2 1305	1685	1.7		2.		7361.		•
2 1315	1695		1.2		2.		7409.	
2 1405	1745	1.5	****	4.		9834.		11
2 1415	1755		1.3		2.		1.1E 04	
2 1505	1805	1 • 4		3.		1.0E 04		1(
2 1515	1815		1.6		5.		1.2E 04	

NO DATA TAKEN

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) 2 ) CC	SIDE 1 AER/N PART/CC	SIDE 2 AER·N PART/CC	SIDE 1 AER.S UM2/CC	SIDE 2 AER.S UM2/CC	SIDE 1 METHANE	SIDE 1 RJ-4(A)	SIDE 1 RJ-4(B)
23	TSI-^23	TSI-023	TSI-023	TSI-023	PPM BK6800-1	PPMC VAR 3700	PPMC VAR 3700
	-277.	-277.	35.	35.	1.87		760 cold plot wind some spen
	3.9E 04		92.		1.72	1.307	0.964
• 	5.1E 04	-324.	298.	59.	1.72	1.332	0.988
-	3.6E 04	7126.	387.	135.	1.72	***	
÷ 	2.8E 04	4853.	413.	89.	1.71	1.292	0.959
•	2.6E 04	5164.  5411.	457.	102.	1.73		the same and they have been
_	2.6E 04	4438.	493.	103.	1.70		
-	2.3E 04	3737	561.	122.  113.	1.71	1.264	0.951
	2.3E 04	4329.	501.	137.	1.70	444 case case case case case case case case	5-7 mm mm ton mm mm
-	6795.		96.		1.74	1.246	0.933
	5064.	5255.	105.	64.	1.74	1.339	1.004
	6087.	3237.	103.	45.	1.72	1+337	
-	5260.	4726.	108.	70.	1.72	1.242	0.933
	7361.	5739. 	98.	77.	1.71	tion and park the same com-	Note that and two may rea
, <b></b>	9834.	7409.	120.	76. 	1.72	1.183	0.888
	1.0E 04	1.1E 04	107.	92.	1.72		

138.

1.2E 04

AFF- 90 RJ-4 VS. JP-10 1981, JUNE 10

CLOCK TIME DY HR.	ELAFSED TIME (MIN)	SIDE 1 RJ-4(C) PPMC VAR 3700	SIDE 1 RJ-4(D) PPMC VAR 3700	SIDE 1 RJ-4(E) PPMC VAR 3700	SIDE 1 RJ-4(F) FPMC VAR 3700	SIDE 1 RJ-4(6) PPMC VAR 3700	SIDE 2 JP-10 PPM VAR 3700	SII Pl BK6:
2.1 111.4	(11210)	VIII DICC	VAIC 3700	VHI( 3700	VAIC 3700	VHI 3700	VHK 3700	DIVO
1 605	-175							1
1 735	-85	1.362	1.460	3.673	1.317	2.159		
1 835	-25							1
1 845	15						1.635	
1 1005	65	1.427	1.538	3.848	1.324	1.963		1.
1 1015	75							
1 1105	125					mayor half-t mires along about grown		1.
1 1115	135						0.5103	
1 1205	185	1.382	1.458	3.634	1.226	1.732		1.
1 1215	195							
1 1305	245							1 .
1 1315	255						0.2031	
1 1405	305							1 .
1 1415	315							
1 1505	365	1.348	1.404	3.489	1.217	1.654		1.4
1 1515	375							***
1 1605	425						***************************************	1 -
1 1615	435						0.1767	
2 715	1335	1.346	1.429	3.590	1.307	1.829		
2 815	1395						1.509	
2 835	1415							1 (
2 845	1425							
2 1005	1505	1.365	1.444	3.563	1.245	1.866	~ ~ ~ ~ ~ ~	1 .
2 1015	1515		are the trip and rate was					** *** *
2 1105	1565							1.
2 1115	1575						0.6499	••• ••• •
2 1205	1625	1.320	1.395	3,442	1.155	1.699		1 (
2 1215	1635		~~ ~~ ~~ ~~					
2 1305	1685							1 .
2 1315	1695	4 054					0.3971	
2 1405	1745	1.254	1.321	3.226	1.092	1.593	ages fifth and name there was	1 (
2 1415	1755	***						
2 1505	1805							1 4
2 1515	1815			***************************************			0.3523	

NO DATA TAKEN

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SIDE 1 RJ-4(G)	SIDE 2 JP-10	SIDE 1 CO	SIDE 2 CO	SIDE 1	SIDE 2
PPMC	PPM	PPM	PPM	PAN PPM	PAN
VAR 3700	VAR 3700	BK6800-1			PPM FOR 4
VAIC 3700	VHK 3/00	DN0000-1	BK6800-1	ECD-1	ECD-1
		1.15	1.15	0.000	0.000
2.159					
	-	1.20		0.000	
	1.635		1.20		0.000
1.963		1.22		0.001	
			1.22		0.001
		1.26		0.001	
	0.5103		1.26		0.005
1.732		1.32	and after dade after some attent	0.001	
**********					0.010
		1.39		0.002	
	0.2031		1.41		0.010
		1.43		0.002	
			1.49		0.009
1.654		1.48		0.002	
			1.55		0.011
		1,47		0.002	
	0.1767		1.57		0.004
1.829			ment took fifth note cook some		
	1.509				
		1.55	_~~	0.000	
			1.65		0.001
1,866		1.57		0.000	
			1.62		0.001
		1.62		0.001	
	0.6499		1.71		0.003
1.699		1.65		0.002	
		2000 DOI: TAX MAR NOW MAKE	1.61		0.006
		1.68		0.003	
	0.3971		1.76		0.009
1.593		1.77		0.004	
		****	1.76		0.014
		1.75		0.007	
	0.3523		1.83		0.002
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CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 PART.024 PART/CC TSI-023	SIPE 1 PART.042 PART/CC TSI-023	SIDE 2 PART.042 PART/CC TSI-023	S PA PA TS
1 605	-175	~~~~		-334.	-334.	٥.	0.	
1 810	-50	0.013	0.000					
1 835	-25			3.3E 04		5307.		
1 845	-15			*** *** *** *** ***	-1169.		696.	-
1 1005	65		~~~~	2.3E 04		2.1E 04		6
1 1015	75				668.		2262,	-
1 1105	125			6179.		1.8E 04		1
1 1115	135				334.		-87.	_
1 1200	180	0.002	0.000					
1 1205	185			-334.		9831.		1
1 1215	195		arter with their ages forth with		501.		0.	****
1 1305	245			501.		5307.		1
1 1315	255				668.		261.	····· .
1 1405	305 715			4008.		957.		1
1 1415	315				0.		174.	_·
1 1505 1 1515	365 375			1837.	-368.	348.	87.	1
1 1605	370 425			2338.		1479.	8/+	1
1 1610	430	0.004	0.002	2330+		14/7+		
1 1615	435	~	V+002		334.		522.	···· ,
1 1010	400				334+		ULL.	
2 810	1390	0.010	0.021					
2 835	1415		~	2839.		1566.		11
2 845	1425				2171.	~	1914.	
2 1005	1505			1169.		1305.		15
2 1015	1515				835.		870.	
2 1105	1565			2004.		1131.		2(
2 1115	1575				2338.		609.	
2 1200	1620	0.029	0.010					
2 1205	1625			1336.		1392.		17
2 1215	1635				2505.		1131.	
2 1305	1685			3173.		1392.		21
2 1315	1695				3841.		1218.	 2/
2 1405 2 1415	1745 1755	~~~~		4342.	5678.	2436.		24
2 1415	1/55			4843.	5,678+	2610.	2523.	25
2 1505		0.023	0.017	4843.		5010+	~	44
2 1510	1810 1815	0.023	0.01/		5678.		4263.	
2 1010	1017				70/0+		74031	

---- NO DATA TAKEN

944

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)

SIDE 1 PART.042 PART/CC TSI-023	SIDE 2 PART.042 PART/CC TSI-023	SIDE 1 PART.075 PART/CC TSI-023	SIDE 2 PART.075 PART/CC TSI-023	SIBE 1 PART.133 PART/CC TSI-023	SIDE 2 PART.133 PART/CC TSI-023
0.	0.	178.	178.	-120.	-120.
5307.		355.		193.	
	696.		-44.		96.
2.1E 04		6172.		193.	
	2262.		3996.		145.
1.8E 04		1.2E 04		434.	
maga magist pittin tonin 1901 teleb	-87.		4396.		193.
9831.		1.8E 04		603.	
	0.		4085.		603.
5307.		1.9E 04		1036.	
	261.		3685.		916.
957.		1.9E 04		2265.	
	174.		3419.		843.
348.		1.7E 04		3254.	
	87,		3286.		1157.
1479.		1.6E 04		3253.	
	522.		2442.		954.
1566.		1820.		506.	
	1914.		799.		458.
1305.		1998.		603.	
	870.		1421.		24.
1131.		2087.		838.	
	609.		1465.		313.
1392.		1732.		819.	
	1131.		1820.		217.
1392.		2131.		627.	
	1218.		2087.		241.
2436.		2442.		578.	
	2523.		2620.		241.
2610.		2575.		48•	
	4263.		1732.		241.

AFF- 90 RJ-4 VS. JP-10 1981, JUNE 10

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 PART.237 PART/CC TSI-023	SIDE 2 PART.237 PART/CC TSI-023	SIDE 1 PART.422 PART/CC TSI-023	SIDE 2 PART.422 PART/CC TSI-023	SIDE 1 PART.750 PART/CC TSI~023	SIDE 2 PART.750 PART/CC TSI-023
1 605 1 835 1 845 1 1005	-175 -25 -15 -65	-25. -74.  49.	-25. 49.	0. 0. 20.	33.	25. 0. 	25. 14.
1 1015 1 1105 1 1115 1 1205	75 125 135 185	12.	25.	67.	13.	0.	0.
1 1215 1 1305 1 1315 1 1405	195 245 255 305	12.	-25. -123.	0.	0.	14.	4.
1 1415 1 1505 1 1515 1 1605 1 1615	315 365 375 425 435	-160. -111.	-12. -148. 	80.	7,  20, 	28.	7, 4, 
2 835 2 845 2 1005	1415 1425 1505	37. 	-98.	27.	-7.	0.	18.
2 1015 2 1105 2 1115 2 1205	1515 1565 1575 1625	-12. -49.	74.	7.	20.	4.	-7. 11.
2 1215 2 1305 2 1315 2 1405 2 1415	1635 1685 1695 1745	25.	49.  12. 	13.	7, 	0.	4.
2 1505 2 1515 2 1515	1755 1805 1815	148.	25.	7.	100.	4.	 0.

----- NO DATA TAKEN

NOTES

A ANOMOLOUS BEHAVIOR OBSERVED ON DAY 1. NO, NO2, NOX DATA SHOULD NOT BE USE!

AFF- 91 FURE AIR IRRADIATION 1981 JUNE 12

728: FILL STARTED; WET: 6.0, DRY: 0.0, DEW PT.: 9.9, R.H.: 44%

838: FILL ENDED.

900: UNCOVER BAG (T=0).

RESULTS: OZONE FORMATION RATE = 7.2 PPB/HR

T=0 AT 900 PST

BAG NO. 22 USED

ID INST. AVERAGE S.DEV 1111S

VALUE

T DORIC-1 30.2 4.4 DEG C UV RAD EPPLEY-1 3.22 0.91 MW/CM2

#### INSTRUMENTS USED

LABEL DESCRIPTION 1790 D-1790 DASIBI 1790 DZONE MONITOR 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 4130 EPPLEY-1 ARB TRAILER; EPPLEY 11692 UV RADIOMETER BENDIX 8101BX NOX ANALYZER; SN300038-2 4600 B-NOX-1 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D 4000 ECD-3 AF-LAB; 12" 5% CARBOWAX-600 GC; ECD 4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030 CLIMET 208 OPTICAL PART, CTR; SN:76-148 4350 CLIMET MRI INTEGRATING NEPHELOMETER MD: 1550B 4400 MRI-388 4200 CNC-143 ENV ONE RICH100 CONDENS NUCLEI CTR; SN:143 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2100 PN-1 RM-121 POROPAK-N GC; FID 2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	0Z0NE FPM D-1790	NO FPM B-NOX-1	NO2-UNC FPM B-NOX-1	NOX-UNC FPM B-NOX-1	THC PPMC BK6800-1	T DEG C DORIC-1	UV F MW/( EPPLE
1 845	-15	0.000	0.007	0.00i	0.009	0.97	22.9	
1 930	30	0.001					24.2	1.7
1 1000	60	0.002					25.3	1.4
1 1030	90	0.006					28.6	4.0
1 1100	120	0.008	~				30.8	4,
1 1130	150	0.013	~				31.5	4.1
1 1200	180	0.017				-	31.5	2.
1 1230	210	0.023					33.6	3.1
1 1300	240	0.027	*				34.6	3.
1 1330	270	0.030					35.0	3.
1 1400	300	0.036	0.010	0.000	0.011	0.88	34.6	2,

----- NO DATA TAKEN

.9, R.H.: 44%

79 ETER 8-2

n

#PART>,5 *PART>1 #PART>.3 CONDENS UV RAD Ţ THC -иис PART/CC PART/CC PART/CC MW/CM2 10E3/CC DEG C PPMC F M CLIMET CLIMET CLIMET EPPLEY-1 CNC-143 DORIC-1 BK6800-1 bx-1 0. ٥. 0. 0.0 22.9 0.97 .009 1.73 24.2 1.51 25.3 4.00 28.6 4.18 30.8 4.05 31.5 2.73 31.5 3,82 33.6 3.73 34.6 ____ ...... ----3.46 _____ 35.0 ____ 0. Q. C. 5.3 2.54 34.6 0.88 .011

AFF- 91 PURE AIR IRRADIATION 1981 JUNE 12

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	BSCAT 10-4 M-1 MRI-388	AER.V UM3/CC TSI-023	AER.N PART/CC TSI-023	AER.S UM2/CC TSI-023	METHANE PPM BK6800-1	METHANE PPM PN-1	ETHE 199 199 PN-
1 835	-25						1,36	0.00
1 845	-15	0.2	0.	-1045.	5.	1.38		
1 1400	300	0.3	3,	3,0E 04	259,	1.37		
CLOCK		PROPENE	I-C4	N-C4	1-C4=	I-C4=	CO	PAN
TIME	TIME	PPM	P F M	PPM	PPM	PPM	PPM	444
DY HR.	(MIM)	DMS-1	DMS-1	DMS-1	DMS-1	DMS-1	PK6800-1	ECD-
1 835	-25	0.0004	0.0012	0.0009	0.0001	0.0001		
1 845	-15		·				0.48	0.0
1 853	-7							
1 1350	290				~~~~~			
1 1400	300	water have your same ways dame	man stand upon appe state talks		mode about with trade fifth Laws	dates made after table table (than	0.71	0.0
CLOCK	ELAPSED	PART.075	PART.133	PART.237	PART.422	FART.750		
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC		
DY HR.	(MIN)	TSI-023	751-023	TSI-023	TSI-023	TSI-023		
1 845	-15	٥.	٥.	37.	0.	٥.		
1 1400	300	8347.	193.	-25.	7.	0.		

----- NO DATA TAKEN

3	METHANE	METHANE	ETHENE	ETHANE	ACETYLEN	ACETYLEN	PROPANE
CC	PPM	PPM	PPM	PPM	PPM	PPM	HPP
23	BK6800-1	PN-1	PN-1	FN-1	FN-1	DMS-1	DMS-1
		1.36	0.0032	0.0039	0.0011	0.0012	0.0028
•	1.38						
t.	1.39		1999 SAME SAME SAME AND MANY	were sirts. New sold resp takes	was also can see our tide	anne men gree orde page make	wages depths which private garden before
_	I-C4=	CO	PAN	нсно	ACETALD	PART.024	PART.042
_	PPM	PPM	PPM	PPM	PPM	PART/CC	PART/CC
L	DMS-1	BK6800-1	ECD-3	CA	10'C-600	TSI-023	TSI-023
)1	0.0001		PRO 1000 COT TOT SITE STOR		0.0025		about dead doller brille augus mont
		0.48	0.000			~1169.	87.
				0.010		~~~~~	
		,,, w ,		0.017			
	design about 1889, have substi	0.71	0.000	open super bride state, seem state		4509.	1.7E 04

422 PART.750 CC CART/CC 23 TSI-023

٥,

0,

NO

THC

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**1** 

NO2-UNC

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AFF- 92
JP-10, 4 DAY STATIC
1981 JUNE 16-19
DAY 1 (JUNE 16)
  545: START FILL; WET: 6.0, DRY: 0.0, DEW PT.:9.5, R.H.:21%
  703: END FILL.
  729: INJECTED 6.2 ML. NO2
  731: INJECTED 20.0 ML. NO.
  733: INJECTED 400 ML. FREON 12.
  738: INJECTED 624 MICROLITERS JF-10 USING HEAT GUN AND INJECTION BULB.
  755: MIXED BAG.
  900: UNCOVER BAG (T=0).
      (JUNE 17)
  800: START SAMPLING, PANALYZER DOWN - NO USEABLE PAN DATA.
       (JUNE 18)
DAY 3
 1430; STRONG GUSTS OF WIND; COVERED BAG WITH TEFLON COVER.
DAY 4 (JUNE 19)
  805: FIRST SAMPLE.
  828: START FILL; WET: 6.0, DRY: 0.0
  836: INJECT 18.5 ML. NO AT 200 ML/MIN N2
       INTO PURE AIR STREAM FOR 10 MINUTES.
  846: INJECT 6.0 ML NO2, SAME AS NO INJECTION.
       DILUTION FACTOR = 0.63
  856: END FILL, END INJECTION.
  857: MIX BAG.
 1020: REMOVED TEFLOW WIND COVER.
 1510: RUN OVER, BAG COVERED AND DUMPED.
RESULTS
                      DAY 1
                                      DAY 2
                                                     DAY 3
                                                                     DAY 4
_____
                                      ----
                                                     ----
                                                                     ____
AVG.T(DEG.C)
                      44(+-2)
                                      44(+-4)
                                                     41(+-5)
                                                                     40(+-4)
AVG.UV(MW/CM2)
                      3.3(+-0.9)
                                      2.3(+-1.0)
                                                     2.1(+-0.6)
                                                                     2.7(+-0.8)
T=0 AT 900 PST
BAG NO.
          22 U3ED
                            S.DEV
  ID
           INST.
                  AVERAGE
                                   UNITS
                   VALUE
         DORIC-1
                   41.5
                            4.7
                                     DEG C
UV RAD
                           0.94
         EPPLEY
                   2.55
                                     MW/CM2
  ID
           INST.
                  INITIAL
                            UNITS
```

CONC.

0.397

0.136

PPM

PFM

PPMC

B-NOX-1

B-NOX-1

BK6800-1 31.20

AFF- 72 JP-10, 4 DAY STATIC 1981 JUNE 16-19

#### INSTRUMENTS USED

RATE DESCRIPTION ID LABEL (ML/MIN) BASIBI 1790 OZONE MONITOR 1790 D-1790 4600 B-NOX-1 BENDIX NOX ANALYZER MD8101BX SN300038-2 4850 BK6800-1 BECKMAN HYDROCARBON GC MD 6800 SN100015D 1800 DORIC-1 DORIC TEMP INDICATOR, SN 61479 4000 ECD-3 AF-LAB; 12" 5% CARBOWAX-600; FID 4130 EPPLEY ARB LAB; EPPLEY 11692 UV RADIOMETER TSI ELECTRICAL AEROSOL ANALYZER MD:3030 4300 TSI 023 4350 CLIMET CLIMET OPC MD:208 SN76-148 4400 MRI 388 MRI INTEGRATING NEPHELOMETER MD: 1550B 4200 CNC-143 ENV. ONE CNC MD:RICH100, SN:143 CHROMOTROPIC ACID HCHO ANALYSIS 3000 CA 2200 BMS-1 RM-121; DIMETHYLSULFOLANE; FID RM 121; POROPAK N ; FID 2100 PN-1 2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID

2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID

SAMPLING

AFF- 92 JP-10, 4 DAY STATIC 1981 JUNE 16-19

CLOCK	ELAPSED	OZONE	NO Maa	NO2-UNC	NOX-UNC PPM	THC PPMC	JP-10 PPM	T Dec
TIME	TIME	PPM D-170A	PPM P-NOV-1	PPM P-VOV-1			VAR 3700	
DY HR.	(MIN)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	BK6800-1	VHK 3/00	DORIC
1 705	-115	0.000	0.015	0.000	0.015	0.40	THE GAS THE THE PUR THE	28.
1 810	-113 -50		0+013				1,988	
1 845	-15	0.000	0.397	0.136	0.520	31.20		35.
1 1005	65	0.001	0.356	0.167	0.514	31.10	2.111	40.
1 1105	125	0.003	0.320	0.188	0.500	30.60	1.893	43.
1 1205	185	0.004	0.281	0.214	0.496	30.40	2.049	44.
1 1305	245	0.004	0.239	0.247	0.484	29.50	2.140	45.
1 1405	305	0.005	0.196	0.280	0.476	29.60	1.931	47.
1 1505	365	0.011	0.158	0.304	0.460	28.60	1.955	45.
1 1605	425	0.012	0.131	0.325	0.481	29.70	1.882	42.
				<del></del>		· · · ·		
2 800	1380						1.867	
2 805	1385	0.023	0.092	0.353	0.462	29.40		36.
2 905	1445	0.032	0.075	0.342	0.437	29.50	1.938	39.
2 1005	1505	0.047	0.052	0.357	0.428	29.10	1.904	43.
2 1105	1565	0.073	0.030	0.380	0.411		1.925	45.
2 1205	1625	0.116	0.022	0.361	0.390			46.
2 1305	1685	0.175	0.010	0.343	0.376		1.788	47.
2 1405	1745	0.249	0.000	0.315	0.339		1.853	47.
2 1505	1805	0.316	0.090	0.295	0.315		1.742	45.
2 1605	1865	0.369	0.010	0.265	0.290		1.731	42.
3 805	2825	0.206	0.019	0.029	0.045		1.620	30.
3 905	2885	0.210	0.000	0.031	0.041	25.20	1.632	34.
3 1005	2945	0.222	0.000	0.029	0.039	25.10	1.779	39.
3 1105	3005	0.231	0.006	0.026	0.038	25.00		43.
3 1205	3065	0.238	0.013	0.031	0.045	24.80	ran ope, and ope may the	43.
3 1305	3125	0.244	0.000	0.032	0.045	24.70	1.549	44.
3 1405	3185	0.243	0.011	0.030	0.047	24.50	1.416	42.
3 1505	3245	0.238	0.006	0.011	0.038	24.50	1.598	44.
3 1605	3305	0.235	0.011	0.028	0.041	24.20	1.513	44.
,					A 5.45	m 4 . m m	4 566	-7-7
4 805	4265	0.176	0.019	0.030	0.045	24.20	1.800	33.
				0.370		15.30		35.
4 909	4329						1.100	
4 1005	4385	0.025	0.101	0.390	0.391	15.40	4 0/4	40.
4 1009	4389					45 00	1.064	40
4 1105	4445	0.039	0,078	0.405	0.485	15.20	0.0470	40.
4 1204	4504	A AEA			0.400	45 00	0.8470	
4 1205	4505	0.054	0.052	0.412	0.480	15.00		41.
4 1305	4565	0.076	0.038	0.422	0,468	15.00	6 71/0	43.
4 1308	4568 4435	0 100	A A 3 A	^ A17	A A A B	1 4 70	0.7168	42.
4 1405	4625	0.102	0.030	0.417	0.449	14.70	0.9729	42+
4 1408	4628					14.60	V+7/27	41,
4 1505	4485	0.118	0,022	0.405	0.433	14.60	0.9587	41,
4 1508	4688						V+7J0/	

NO DATA TAKEN

NC	THC	JP-10 ₽₽M	T DEG C		#PART≥.3 PART/CC		#PART /1 PART/CC
- i	PPMC BK6800-1		roric-i		CLIMET		
15	0.40		28.8	THE WAR WAS THE THE THE THE	0.	0.	0.
		1.988	species as the sale and the				
20	31.20		35.6		0.	0.	٥.
14	31.10	2.111	40.6	3.46	8.	0.	0.
00	30.60	1.893	43.4	4.45	70.	2+	٥.
96	30.40	2.049	44.0	3.71	63.	21.	0.
84	29.50	2.140	45.3	4.00	53.	50.	1.
76	29.60	1.931	47.6	3.28	43.	42+	1.
160	28.60	1.955	45.4	2.63	34+	. 34.	1 .
81	29.70	1.882	42.1	1.73	25.	25.	7.
		1.867					
(62	29.40		36.2	0.92	0.	0.	0.
37	29.50	1.938	39.2	1.95	1.	0.	0.
128	29.10	1.904	43+9	3,68	3.	2.	0.
111		1,925	45.7		4.	3.	<u>o</u> .
390			46.3	1.90	5.	4.	2.
76		1.788	47.0	*** *** *** *** ***	8.	6+	2.
339		1.853	47.3	2.07	5.	13.	3.
315		1.742	45.5	2.21	12.	14.	6+
290		1.731	42.3	1.58	9.	14.	10.
)45	25.20	1.620	30.9	1.66	6.	3.	0.
)41	25.20	1.682	34.7	2.66	12.	1.	٥.
39	25.10	1.779	39.5	2.71	11.	12.	1.
38	25.00		43.0	2.93	282.	41.	2.
)45	24.80		43.5	2.16	262.	72.	2.
)45	24.70	1.549	44.6	2.67	238.	116.	3.
047	24.50	1.416	42.6	1.70	190.	117.	3.
38	24.50	1.598	44.8	1.43		98.	3.
041	24.20	1.513	44.5	1.01	128.	71.	3.
045	24.20	1.800	33.0	1.46	1.	1.	0.
502	15.30		35.8	2.27	47.	7 •	0.
	45 40	1.100	40.0	2.32	233.	35.	0.
391	15.40	1.064	40.0	2+32	£ 4 0 +		
485	15.20	1.004	40.0	3.82	330.	80.	1.
		0.8470					
480	15.00		41.5	3.19	311.	126.	5,
466	15.00		43.0	3.55	269.	242.	17.
		0.7168					
449	14.70		42.2	2.63	223.	227.	22.
		0.9729	mint still form wide \$600 Mind				
433	14.60		41.7	2.00	181.	185.	16.
		0.9587					

AFF- 92 JF-10, 4 DAY STATIC 1981 JUNE 16-19

1281 7	OME TO-13							
CLOCK	ELAPSED	BSCAT	AER.V	AER.N	AER.S	FREON 12	CO	PAN
TIME	TIME	10-4 M-1	UM3/CC	PART/CC	UM2/CC	RAW DATA	PPM	PPM
DY HR.	(MIN)	MRI 388	TSI 023	TSI 023	TSI 023	DMS-1	BK4800-1	ECD-:
1 705	-115	0.2	-0.	423.	-1.			0.0
1 810	-50	part state with man about state				357 + 4		
1 820	-40							
1 845	-15	0.2	5.	1503.	36.		1.16	0.00
1 1005	65	6.3	1.	1132.	19.		1.19	0.0
1 1105 1 1200	125 180	0 . 4	1.	781.	26.		1.25	0.00
1 1200	185	0.5	0 +	637.	11.		1.27	0.04
1 1305		0.4	3.	855.	35.		1.26	0.0
1 1405			2.	-2108.	15.		1.30	
1 1505		0.2	3.		30.		1.32	0 • 0
1 1600							4 70	
1 1605	425	0.3	1.	847.	14.	355.3	1.38	0+0
2 805	1385	0.3	-1.	-2702.	-18.	373.2	1.39	0.0
2 810								
2 905		0.3	1.	1960.	3.		1.37	
2 1005	1505	0.2	-6+	503.	-49.		1.43	0.0
2 1105	1565	0.3	-1.	-231.	-3.		1 + 4 4	
2 1200								
2 1205		2.4	-3.	775.	-24.			
2 1305		0.3	-4.	-206.	-22.			
2 1405		0 . 4	-1.	429.	-16.			0.0
2 1505		0.6	-9.	429. 620.	-62.			0.0
2 1600				~				
2 1605		0.8	0.	1562.	28.	365.1	ment from the same major man	0.0
3 805	2825	1.0	-1.	2606.	50.	372.7	1,66	0.0
3 810								
3 905		0.8	2.	4415.	71.		1.60	0.0
3 1005		1.6	4.		110.		1.66	0.0
3 1105		1.7					1.66	
3 1200								
3 1205		1.8	4.	2711.	96.		1.74	0.0
3 1305		1.6	-1.	1754.	49.		1.70	0.0
3 1405		1.0	-i.	2268.	49.		1.79	0.0
3 1505		1.0	5.	1329.	78.		1.80	0.0
3 1600		* + V		102/1	, w v			
3 1605		0.8	1.	741.	51.	357.4	1.77	area well didn aged
A 750	A 4555	agen since made state office total				100 tely also tell 100 tell	100 cus tru ma ma uni	
4 752					23.	373.2	1.86	0.0
4 805		0.2	1.	1982.	100.	3/3+4	2.07	0.0
4 905		0.8	4,	4177.	100.	235.0	2+07	
4 906						235.0		
4 922							2.08	0.0
4 1005		1.8	2.	3887.	108.			
4 1105		2.5	10.	3784.	162.		2.08	0.0
4 1200		7 5		3974.	107.		1.99	0.0
4 1205		2.5	2. 3.	39/4. 2923.	84.		2.16	0.0
4 1305 4 1405		2.0 1.8	5. 6.	1384.	98.		2.09	3.0
4 1500								
4 1505		1.5	1.	2469.	38.	235.8	2.20	0.0
		*						

NO DATA TAKEN

R.S 2/CC 023	FREON 12 RAW DATA DMS-1	CO PPM BK6800-1	PAN PPM ECD-3	HCHO PPM CA	CONDENS 10E3/CC CNC-143	PART.024 PART/CC TSI 023	PART.042 PART/CC TSI 023
							4 77 A
-1.			0.000	age our out the ten ber	0.0	334,	174.
	357.4						
				0.000			-1131.
36.		1.16	0.000		0.0	2505.	-1131.
19.		1.19	0.000		0.0	1002.	-174.
26.		1.25	0.000	0.004	0.0	167.	-1/4+
		1.27	0.000		0.0	167.	0.
11.		1.26	0.000		0.0	648.	-87.
35.		1.30			0.0	-2004.	-174.
15.		1.32	0.000		0.0	835.	-435.
30.		1+32	0.000	0.008			
				V+VV6	0.0	668.	٥.
14.	355.3	1.38	0.000		0.0	000+	•
18.	373.2	1.39	0.000		0.0	-2171.	-609.
<u></u>				0.015			
3.		1.37			0.0	2672.	-1044.
49.		1.43	0.005		0.0	-167.	957.
-3.		1.44			0.0	-501.	261.
5				0.025			-609.
24.					0.0	1336. 0.	-348.
22.			0.004		0.0	0.	-241.
.16.			0.004		0.0	501.	-261.
-62.			0.004	0.038			
28.	365.1		0.004		0.0	167.	957.
50.	372.7	1.66	0.008	THE MARK SHALL MADE WHEN MADE	0.0	-1002.	696,
				0.044			
71.		1.60	0.006		0.0	1169.	~348.
10.		1.66	0.002		0.0	1169.	174.
57.	,	1.66			0.0	G.	0.
				0.038			
96.		1.74	0.002	compression agine side gapes with	0.0	-167.	87.
49.		1.70	0.002		0.0	-1169.	435.
49.		1.75	0.003		0.0	334,	261.
78₊		1.80	0.002		0.0	Q +	٥,
		4 mg mg	~~~~~	0.031		0.	-870.
51.	357.4	1.77			0.0	٠.	-0/0+
				0.036		ACC - COLO -	
23.	373.2	1.86	0.001		0.3	835.	696.
100.		2,07	0.001		0.6	668.	261.
	235.0						
		-		0.019			
108.		2.08	0.002		0.5	-334.	609 •
162.		2.08	0.002		0.3	-334.	-87.
				0.021			
107.		1.99	0.000		0.2	334,	609.
84.		2.16	0.001		0.1	501.	522.
98.		2.09	0.002		0.1	-167.	87.
			0.002	0.017	0.1	i169.	696.
38.	235.8	2.20					

AFF- 92 JP-10, 4 DAY STATIC 1981 JUNE 16-19

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	PART.075 PART/CC TSI 023	PART.133 PART/CC TSI 023	PART.237 PART/CC TSI 023	PART.422 PART/CC TSI 023	PART.750 PART/CC TSI 023
1 705	-115	-133.	72.	-25.	0.	٥.
1 845	-15	0.	193.	-98.	13.	21.
1 1005	65	222.	72.	0.	7.	4.
1 1105	125	666.	96.	12.	13.	0.
1 1205	185	178.	241.	111.	-67.	7.
1 1305	245	178.	24.	62.	0.	11.
1 1405	305	44.	0.	12.	7.	7.
1 1505	365	-89.	48.	12.	27+	7.
1 1605	425	89.	0.	123.	-40.	7.
2 805	1385	44.	-24.	111.	-53.	0.
2 905	1445	311.	145.	-111.	-27.	14.
2 1005	1505	-133.	-145,	12.	7.	-28.
2 1105	1565	0.	0.	12.	0.	-4.
2 1205	1625	0.	120.	-61.	0.	-11.
2 1305	1685	222.	-72.	-37.	53.	-25.
2 1405	1745	932.	-265.	86.	-67.	4.
2 1505	1805	311.	145.	-37.	0.	-39.
2 1605	1865	266.	120.	25.	33.	-7.
3 805	2825	2353.	506.	123.	-67.	-4.
3 905	2885	2975.	627.	98.	-127.	21.
3 1005	2945	2842.	506.	-49.	67.	0.
3 1105	3005	3286.	723.	-86.	20.	-21.
3 1205	3065	2087.	699.	-12.	7.	11.
3 1305	3125	1954.	530.	25.	-13.	-7.
3 1405	3185	1066.	530.	61.	33.	-18.
3 1505	3245	888.	362.	62.	0.	18.
3 1605	3305	888.	723.	0.	0.	0.
4 805	45/E	311.	72.	111.	-53.	11.
4 905	4265 4325	2930.	241.	49.	20.	7.
		2753.	795.	74.	-13.	4.
4 1005 4 1105	4385 4445	2/53· 3952·	145.	74. 37.	40.	32.
		1909.	1109.	0.	13.	0.
4 1205 4 1305	4505 4565	977.	916.	0.	0.	7.
4 1405	4625	710.	699.	37.	-7.	25.
4 1405	4625 4685	710. 355.	217.	12.	20.	0.
4 1505	4080	<b>ಎ</b> ವವ∙	21/+	14+	∠0+	V +

---- NO DATA TAKEN

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AFF- 93
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RJ-4, 4-DAY STATIC 1981, JUNE 23-26

DAY 1 (JUNE 23)

0545: START FILL. WET: 6.0; DRY: 0.0; DEW POINT: 9.8C

0741: INJECTEP 6.2 KL NO2

0743: INJECTED 20.0 ML NO

0745: INJECTED 400 ML FREON 12

0751: INJECTED 624 MICROLITERS RJ-4

0900: UNCOVER BAG (T=0)

1610: SAMPLING OVER FOR DAY 1.

DAY 2 (JUNE 24)

0800: WEATHER: CLEAR, SUNNY, AND WARM. BAG HAS 80% OF ITS AIR

1610: SAMPLING ENDED

DAY 3 (JUNE 25)

0800: WEATHER: CLEAR, SUNNY

0805: BAG HAS BETWEEN 50-55% OF ITS AIR LEFT.

0828: START FILL. WET: 6.0; DRY: 0.0

0829: INJECTED 18.5 NO AT 200 ML/MIN N2 INTO PURE AIR STREAM FOR 10 MINUTES

0839: INJECTED 6.0 ML NO2, SAME METHOD AS FOR NO. TOTAL DILUTION FACTOR DUE TO FILL = 0.72

1610: SAMPLING FINISHED

DAY 4 (JUNE 26)

0800: WEATHER: CLEAR, SUNNY, BAG HAS 75% OF ITS AIR LEFT.

1510: RUN OVER, BAG COVERED AND DUMPED.

RESULTS	DAY 1	DAY 2	DAY 3	DAY 4
	prime delta prime gaper main	table from sale and have		
AVG.T(DEG.C)	40(+-2)	40(+-4)	40(+-5)	39(+-4)
AVG UV(MW/CM2)	3.0(+-0.7)	2.8(+-0.7)	2.7(+-0.8)	2.6(+-0.7)

T=0 AT 900 PST

PAG NO. 22 USED

1 D	inst.	AVERAGE	S.DEV	UNITS
		VALUE		
T	DORIC-1	39.0	4.6	DEG C
UV RAD	EPPLEY-2	2.73	0.72	WM\CW3

ID INST. INITIAL UNITS CONC. B-NOX-1 ΝО 0.400 PPM NO2-UNC B-NOX-1 0.110 PPM THC BK6800-1 30.30 PPMC AFF- 93 RJ-4, 4-DAY STATIC 1981, JUNE 23-26

## INSTRUMENTS USED

SAMPLING RATE (ML/MIN) FID

ID	LABEL	DESCRIPTION	(ML/MIN)
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FII	ł
2100	FN-1	RM-12' POROPAK-N GC; FID	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OPTICAL PART, CTR; SN: 76-148	
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN143	\$
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN: 100015D	
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 GC; ECD	
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS	

456

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AFF- 93 RJ-4, 4-DAY STATIC 1981, JUNE 23-26

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	0ZONE PPM D-1790	NO FPM B-NOX-1	NO2-UNC PPM B-NOX-1	NOX-UNC PPM B-NOX-1	THC PPMC BK6800-1	T DEG C DORIC-1	UV MW/ EPPL
1 705	-115	0.000	0.015	0.000	0.015	0.58	25.7	
1 835	-25	0.003	0.400	0.110	0.519	30.30	30.5	PM 100 TO.
1 1005	65	0.005	0.335	0.175	0.500	30.30	36.2	2.
1 1105	125	0.011	0.260	0.225	0.483	30.10	39.7	3.
1 1205	185	0.015	0.185	0.278	0.460	29.10	40.5	3.
1 1305	245	0.030	0.095	0.335	0.430	29.30	43.1	3.
1 1405	305	0.068	0.040	0.380	0.415	28.60	42.8	3.
1 1505	365	0.132	0.012	0.350	0.365	28.00	40.7	2.
1 1605	425	0.212	0.010	0.320	0.340	27.20	38.8	1.
2 805	1385	0.189	0.010	0.010	0.025	23.60	31.2	1.
2 905	1445	0.188	0.015	0.003	0.025	23.50	34.3	2.
2 1005	1505	0.193	0.020	0.003	0.030	23.30	39.5	2.
2 1105	1565	0.198	0.017	0.011	0.030	23.40	42.0	3.
2 1205	1625	0.201	0.012	0.018	0.029	23.40	42.1	3.
2 1305	1685	0.202	0.015	0.015	0.030	23.00	43.5	3.
2 1405	1745	0.201	0.015	0.015	0.030	22.80	43.7	3.
2 1505	1805	0.201	0.015	0.015	0.025	22.70	42.7	2.
2 1605	1865	0,194	0.020	0.010	0.030	22.50	38.9	1.
						1.1.700	5477	- •
3 805	2825	0.129	0.015	0.010	0.025	21.90	31.3	1.
3 905	2885	0.008	0.260	0.220	0.480	15.40	35.8	2.
3 1005	2945	0.016	0.165	0.290	0.455	15.20	35.8	2.
3 1105	3005	0.040	0.075	0.370	0.465	14.70	41.5	4.
3 1205	3065	0.115	0.025	0.395	0.420	14.30	42.7	3.
3 1305	3125	0.239	0.015	0.350	0.365	13.00	44.5	3.
3 1405	3185	0.415	0.015	0.260	0.285	12.30	44.3	2.
3 1505	3245	0.579	0.015	0.170	0.185	11.20	42.6	2.
3 1605	3305	0.654	0.015	0.095	0.110	9.76	40.0	1.
4 815	4275	0.475	0.020	0.020	0.040	8.92	32.0	1.
4 905	4325	0.462	0.015	0.025	0.040	8.83	34.0	2.
4 1005	4385	0.444	0.015	0.025	0.040	8.74	38 1	2.
4 1105	4445	0.426	0.010	0.030	0.040	8.57	40.0	3.
4 1205	4505	0.411	0.015	0.028	0.042	8.37	42.0	2.
4 1305	4565	0.399	0.010	0.030	0.042	8.29	43.3	3.
4 1405	4625	0.382	0.020	0.025	0.045	8.18	38.9	i.
4 1505	4685	0.363	0.010	0.030	0.040	8.17	40.7	2.
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----- NO DATA TAKEN

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UNC	THC	T	UV RAD	CONDENS	#P4RT\.3	<b>#</b> PART>.5	BSCAT
M	PPMC	DEG C	MW/CM2	10E3/CC	PART/CC	PART/CC	10-4 M-1
X-1	BK6800-1	DORIC-1	EPPLEY-2	CNC-143	CLIMET	CLIMET	MRI-388
015	0,58	25.7	angle films with sajar blade depol	0.0	٥.	0.	E+0
519	30.30	30.5		13.5	0.	٥.	0.3
500	30.30	36.2	2.63	16.0	0.	0.	0.5
483	30.10	39.7	3.84	13.5	0 +	0.	8.0
460	29.10	40.5	3.19	11.3	4.	0.	1.6
430	29.30	43.1	3、73	9.0	152.	4 -	3.7
415	28.60	42.8	3.09	7.1	357.	95.	6.5
365	28.00	40.7	2.45	6.5	429.	228.	6.9
340	27.20	38+8	1.82	5.2	452.	307.	10.5
025	23.60	31.2	1.64	0.1	334.	213.	3.6
025	23.50	34.3	2.73	0.0	292.	256,	2.5
030	23.30	39.5	2.73	0.0	252.	252.	2.2
030	23.40	42.0	3.78	0.0	215.	217.	1.5
029	23.20	42.1	3.05	0.0	202.	178.	1.6
030	23.00	43.5	3.55	0.0	207.	143.	1.6
030	22.80	43.7	3.00	0.0	201.	7.	1.1
025	22.70	42.7	2.50	0.0	181.	111.	1.0
030	22.50	38.9	1.73	0.3	160.	101.	1.0
b25	21.90	31.3	1.73	0.7	5.	₹.	0.8
480	15.40	35.8	2.86	0.5	133.	ዎ•	1.0
455	15.20	35.8	2.73	0.3	300.	67.	1.8
465	14.70	41.5	4.00	0.2	317.	161.	3.3
420	14.30	42.7	3.09	0.1	266.	272.	3.0
365	13.00	44.5	3.28	0.1	208.	213.	2.3
285	12.30	44.3	2.59	0.2	151.	145.	1.9
185	11.20	42.6	2.27	1.0	368.	200.	4.5
110	9.76	40.0	1.37	1.0	451.	290.	7.0
040	8.92	32.0	1.64	0.6	31.	20.	0.7
040	8.83	34.0	2.89	0.6	127.	22.	1.0
040	8.74	38.1	2.70	0.4	281.	61.	1.9
040	8.57	40.0	3.59	0.1	324.	94.	2.1
042	8.37	42.0	2.96	0.1	310.	164.	2.4
040	8.29	43.3	3.09	0.5	284.	205.	2.0
045	8.18	38.9	1.73	0.3	253.	184.	2.0
040	8.17	40.7	2,00	0.2	223.	157.	1.6

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AFF- 93 RJ-4, 4-DAY STATIC 1981, JUNE 23-26

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	AER,V UM3/CC TSI-023		AER+S UM2/CC TSI-023	RJ~4(A) PPMC VAR 3700	PPHC	PPMC	RJ-4( PPM VAR 3
		**	4 ~~ ~~	-1	agus maka dal ^a july ^{pe} ma sepa		<u></u>	
1 705	-115	-2.	-633. 1.2E 04	- フ。 15、	1.229	0,904	1,277	i + 3
1 835	-25	-3.	8.4E 04	577.	1,342	1.058	1.643	1.7
1 1005 1 1105	65 125	-3. 13.	7.2E 04	918.	1,301	. 071	1.440	1.7
1 1205	185	15.	6.58 04	1101.	1.356	1.012	1.499	1.5
1 1305	245	24.	5.9E 04	1247.	# + O O O			~
1 1405	305	27.	5.6E 04		1.203	0.902	1.299	1.3
1 1505	365		4.8E 04	1407.	1,274	0.963	1.422	1.4
1 1605	425	24.	4.4E 04	1322.	1.285	01975	1.430	1.5
1 1003	920	24+	4776 04	102.2.1	1 7 1. 0 1.5	0 7 7 7 2		- , -
2 805	1385	10.	3475.	155.	1.083	0.853	1.256	1.2
2 905	1445	6.	1831.	121.	1.128	0.893	1.296	1.3
2 1005	1505	0.	1634.	55.				
2 1105	1565	-0.	2039.	63.	1.080	0.855	1.264	1.2
2 1205	1625	2.	1898.	74.	1.055	0.846	1,225	1.2
2 1305	1685	-5,	1662.	18.	1.072	0.850	1.238	1.2
2 1405	1745	4.	1350.	82.				
2 1505	1895	1.	224.2.	55.	1.035	0.633	1.206	1.2
2 1605	1865	9.	976.	102.	0.949	0.759	1.120	1.1
3 805	2825	18.	9157.	262.	0.992	0.797	1.173	1.1
3 905	2885	1,	1.0E 04	115.	0.714	0.573	0.886	0.8
3 1005	2945	6.	1.1E 04	185.	0.665	0.534	0.795	0.7
3 1105	3005	5.	5870.	141.	0.611	0 + 493	0.723	0.7
3 1205	3065	1,	5646.	1,07.	0.634	0.517	0.757	0 - 7
3 <b>1305</b>	3125	2.	8618.	101.				
3 1405	3185	2.	1.1E 04	97+	0.545	0.460	0.675	0.6
3 1505	3245	17.	1.1E 04		0.481	0.406	0.604	
3 1605	3305	10.	1.9E 04	418.	0.454	0.393	0.586	0+=
A 50.5	4265							
4 805 4 815	4200 4275	11.	3122.	166.				
4 905	4275 4325	6.	4745.	116.	0.329	0.297	0.420	0.3
4 1005		3.	4077.	128.	0.369	0.351	0.473	0.4
4 1005	4385 4445	-i.	2630.	86+	0.360	0.325	0.475	0.4
4 1205	4505	7.	3186.	135.	0.334	0.304	0.446	0.0
4 1305	4565	7.	1824.	140.		~~~~~		
4 1405	4625	-5,	1211.	37.	0.304	0.294	0.398	0.5
4 1505	4685	11.	1900.		0.299	0.276	0.391	0.43
7 1707	7003	11,	1,00.	Z 1 1 V				

---- NO DATA TAKEN

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RU-4(B) PPMC VAR 3700	RU-4(C) PPMC VAR 3700	RJ-4(D) PPMC VAR 3700	RJ-4(E) PPMC VAR 3700	RJ-4(F) PFMC VAR 3700	RJ-4(G) PPMC VAR 3700	FREON 12 RAW DATA DMS-1
~			A 745	1.236	1.412	380.9
6.904	1.277	1,365	0.342 4.308	2.084	2.422	
1.058	1.643	1.728	4.082	1.286	1.840	
1.071	1,440	1.726	3.939	1.384	2,064	
1.012	1.499	1.591	Ø • 7 Ø ?	1+304	And 2 10 200 170	period and the state
0.902	1.299	1.374	3.390	1,218	1.645	para anni anti mendi ti a mili
=	1.422	1.486	3.654	1.317	1.829	
0.963 0.975	1.430	1.501	3,639	1.347	1.813	366.6
0+7/3	1,400					
0.853	1.256	1,266	2.960	1.212	1.111	368.9
0.893	1.296	1.321	3.042	1.052	1.692	The same and the contract
					need take been been and been	
0.855	1.264	1.272	2,912	0.981	1.256	~
0.846	1,225	1.236	2.804	0.972	1.219	سته میه یک بین سید بین
0.850	1,238	1.253	2.840	1.024	1.043	
0.833	1.206	1,209	2,713	0.961	0.963	372.7
0.759	1.120	1.146	2.490	0.909	0.875	3/2+/
				A 017	0.974	379.4
0.797	1.173	1.154	2.598	0.913 0.668	0.744	272.9
0.573	0.886	0.865	1.913		0.595	
0.534	0.795	0.776	1.727	0.604 0.588	0.544	
0.493	0.723	0.709	1.569	0.636	0.461	
0.517	0.757	0.740	1.619	0.030		
		0.648	1.371	0.625	0.341	
0.460	0.675	0.565	1.154	0.625	0.562	
0.406	0.604	0.532	1.020	0.542	0.342	256.0
0.393	0.586	0.552	1+020	9 7 2		
						256.0
						_ <,
0.297	0.420	0.365	0.672	0.346	0.207	
0.277	0.473	0.411	0.750	0.414	0.203	man over more level man
0.325	0.475	0.405	0.734	0.410	0.205	
0.304	0.446	0.381	0.671	0.388	0.163	
U+3V7	~~~~~					design and never design finish finish
0,294	0.398	0.337	0.589	0.327	0.159	
0.276	0.391	0.331	0.574	0.370	0.144	270.8

0

381000159 24514151

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No.

1981, J	UNE 23-2	.6						
CLOCK	ELAFSED	CO	PAN	нсно	PART.024	PART - 042	PART.075	PART.
TIKE	TIME	PPM	PPK	PPM	PART/CC	PART/CC	PART/CC	PART/
DY HR.	(MIN)	BK6800-1		CA	TSI-023		TSI-023	TSI-C
	A 3 mm		0.000		774	1700	766	-3.5
1 705	-115		0.000		334.	-1392.		72
1 835			0.000		1.1E 04		266.	-241
1 841	-19			0.004				
1 1005	65	1.89			2.3E 04		2.0E 04	458
1 1105	125	1.73	0.001		4843.	2.7E 04	3.8E 04	1277
1 1200	180			0.021			and the area area that	
1 1205	185	1.90	0.001		2171.	1.1E 04	4.9E 04	2362
1 1305	245	1.88	0.000		334.	3915.	5.0E 04	4868
1 1405	305	1.91	0.002		1169.	1392.	4.5E 04	8845
1 1505	365	1.91	0.003		-668.	522.	3.5E 04	1.3E
1 1600	420			0.025				
1 1605	425	1.96	0.005		-1503.	174.	3.2E 04	1.3E
/. BAA	1700		*** *** == #* #* ***	0.046				
2 800 2 805	1380 1385	2.00	0.006		501.		1199.	1446
2 905		2.00	0.005		-501.		977.	1034
	1445		0.003		-167.			
2 1005	1505							
2 1105 2 1200	1565 1620	2.07	0.003	0.050	334.		1021.	819
					334.			1084
2 1205	1625		0.002				977.	1012
2 1305	1685		0.002		-334.			
2 1405	1745		0.002		167.			840
2 1505	1805		0.003		1002.			
2 1600	1860			0.021				
2 1605	1865	2.02	0.003		-668.	609.	622.	217
3 800	2820		1000 5000 size 6000 5000 7000	0.052				
3 805	2825	2.25	0.004		2338.	1914.	4262.	458
3 905	2885	2.24	0.002		2171.	3219.	3952.	1011
3 910	2890			0.040				
3 1005	2945	2.11	0,002		4342.	1914.	3552.	1324
3 1105	3005	2.23	0.002		1169.			
3 1200	3060			0.031				
3 1205	3065	2.26	0.004		1670.	783.	2131.	1012
3 1305	3125	2.34	0.006		3006.	2871.	2087.	65:
3 1405	3125	2.36	0.008		5177.	1740.	3286.	458
					2839.	1653.	4085.	2481
3 1505	3245	2.34	0.022	^ ^ 7	2037+	1033+		
3 1600 3 1605	3300 3305	2,40	0.030	0.073	3173.	4350.	7015.	438
2 1003	3303	2,40	0.030		31/31	45501	,013.	1001
4 800	4260			0.073				
4 815	4275	2.50	0.010		167.	٥,	2620.	-24
4 905	4325	2.53	0.011		1002.	-87.	2531.	147(
4 1005	4385	2.53	0.011		Q.	696.	1909.	144
4 1105	4445	2.50	0.010		-668.	87.	1643.	1591
4 1200	4500			0.069				
4 1205	4505	2.61	0.010		835.	-435.	1243.	1639
4 1305	4565	2.54	0.009		-835.	435.	844.	130:
4 1405	4625	2.69	0.010		-501.	174.	488.	1137
4 1500	4680		MM 400- 400- 600- 600- 600-	0.077	~~~~~			
4 1505	4685	2.70	0.010		835.	-522.	755.	819
					• •			

NO DATA TAKEN

24 C	PART.042 PART/CC TSI-023	PART.075 PART/CC TSI-023	PART.133 PART/CC TSI-023	PART.237 PART/CC TSI-023	PART.422 PART/CC TSI-023	PART.750 PART/CC TSI-023
04	-1392. 696.	355. 266.	72. -241.	-12. 86.	20. 7.	-11. -11.
- ) 4	4.0E 04 2.7E 04	2.0E 04 3.8E 04	458. 1277.	74. -61.	27· 7·	-53. 7.
••	1.1E 04	4.9E 04	2362.	37.	60.	-7.
	3915.	5.0E 04		123.	0 +	25+
		4.5E 04		49.	20.	25.
	1392. 522.	3.5E 04	1.3E 04	172.	7.	14.
	174.	3.2E 04	1.3E 04	135.	-7.	0 +
		more comic state state when with				70
-	348.	1199.	1446.	-37.	-20.	39.
	174.	977.	1036.	1.48.	-20.	18.
	-261.	1066.	1012.	25.	-40.	0.
	-174.	1021.	819.	12.	40.	-14.
-			1084.	-12.	V +	4.
	0.	488. 977.	1012.	~49.	-7.	-25.
	87.	710.	843.	-86+	60+	4.
	~348. -87.	666.	627.	61.	-7•	0.
-	609.	622.	217.	221.	-67.	42.
•			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ماللة المناه المناه المناه المناه المناه		
			458.	98•	20.	67.
,	1914. 3219.	4262. 3952.	1012.	-61.	-73.	11.
	3217.			74.	-13.	14.
•	1914.	3552.	1326.			
	1305.	2042.	1374.	-25.		year man tops year pope make
· <b>~</b>		2131.		37.	20.	-7.
	783.	2087.	651.	٥.	٥.	4.
	2871.	3286.	458.	-12.	-40.	11.
	1740. 1653.	4085.	2482.	25.	-60.	67.
· 	4350.	7015.	4386.	-12.	7.	11.
	هيه شب عبر هيه يجب پيد	,	-24.	344.	-27+	42.
•	0.	2620.	1470.	-86,	-127.	42.
٠	-87.	2531.	1470.	12.	13.	٥.
٠	696.	1909.		25.	-40.	-7.
٠	87.	1643.	1591.			
 ; •	-435.	1243.	1639.	-111.	-13.	28. 14.
	435.	844.	1301.	25.	40.	-53.
5 •	174.	488.	1133.	-197.	167.	• د د د سعمسس
 5.	-522.	755.	819.	-86.	60+	39.
					2	

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AFF- 94
JP-10 VERSUS RJ-4
1981 JUNE 30
DAY 1
        (JUNE 30)
  0445: START FILL. WET: 6.0; DRY: 0.0; DEW FOINT 10.6C; RH=34%
  0628: INJECTED 5.0 ML NO2
  0630: INJECTED 18.0 ML NO
  0633: DIVIDE BAG.
  0646: INJECTED 312 MICROLITERS RJ-4 INTO SIDE B.
  0707: INJECTED 312 MICROLITERS JP-10 INTO SIDE A.
  0900: UNCOVER BAG (T=0)
  0905: WEATHER: CLEAR AND SUNNY,
  1630: BAG COVERED FOR THE NIGHT
DAY 2
        (JULY 1)
  0900: UNCOVERED BAG
  1500: END OF RUN.
RESULTS
                       DAY 1
                                            DAY 2
AVG.T(DEG.C)
                       39(+-2)
                                            37(+-5)
AVG.UV(MW/CM2)
                       3.0(+-0.8)
                                            3.1(4-0.5)
T=0 AT
       900 PST
BAG NO.
          22 USED
  ID
           INST.
                   AVERAGE
                             S.DEV
                                    UNITS
                    VALUE
T
         DORIC-1
                             6.2
                                       DEG C
                    34.8
                                               SIDE 1
T
         DORIC-1
                    36.0
                             6.7
                                      DEG C
                                               SIDE 2
UV RAD
         EPPLEY-2
                                      MW/CM2
                    3.02
                            0.66
  10
           INST.
                   INITIAL
                             UNITS
                    CONC.
NO
         B-NOX-1
                    0.380
                              PPM
                                       SIDE 1
NO
         B-NOX-1
                    0.345
                              PPM
                                       SIDE 2
NO2-UNC
         B-NOX-1
                    0.120
                              PPM
                                       SIDE 1
                              PPM
NO2-UNC
         B-NOX-1
                    0.150
                                       SIDE 2
THC
         BK6800-1 36.80
                              PPMC
                                       SIDE 1
         BK6800~1 35,60
                              PPMC
THC
                                       SIDE 2
  INSTRUMENTS USED
  ID
       LABEL
               DESCRIPTION
 4300 TSI-023
               TSI ELECTRICAL AEROSOL ANALYZER MD:3030
 4350 CLIMET
                CLIMET 208 OPTICAL PART. CTR; SN:76-148
 4400 MRI-388
               MRI INTEGRATING NEPHELOMETER MD:1550B
 4200 CNC-143
                ENV ONE RICH100 CONDENS NUCLEI CTR; SN143
 1790 D-1790
               DASIBI 1790 OZONE MONITOR
                BENDIX 8101BX NOX ANALYZER; SN300038-2
 4600 B-NDX-1
 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D
 1800 DORIC-1
                DORIC TEMPERATURE INDICATOR, SN 61479
 4000 ECD-3
                AF-LAB; 12" 5% CARBOWAX-600 GC; ECD
 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG
 2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FJD
               RM-121 POROPAK-N GC; FID
 2100 PN-1
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RM-121; DIMETHYLSULFOLANE GC; FID CHROMOTROPIC ACID HCHO ANALYSIS

2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP, GC; FID

g

2200 DMS-1

3000 CA

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AFF- 94 JP-10 VERSUS RJ-4 1981 JUNE 30

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE
CLOCK	ELAPSED	OZONE	OZONE	NO	NO	NO2-UNC	NO2-UNC	NOX-f
TIME	TIME	PPM	PPM	PPM	PPM	PPM	PPM	PPM
DY HR.	(MIN)	D-1790	D-1790	B-NOX-i	B-NOX-1	B-NOX-1	B-NOX-1	B-NO>
i 605	-175	0.000	0.000	0.005	0.005	0.000	0.000	0.0
1 835	-25	0.002		0.380		0.120		0.4
1 845	-15		0,000		0.345		0.150	
1 1005	65	0.004		0.315		0.180		Ŭ . 4
1 1015	75		0.009		0.225		0.200	
1 1105	125	0.006		0.255		0.230		0.4
1 1115	135		0.015	*** *** *** *** ***	0.070		0.115	
1 1205	185	0.010		0.190		0.280		0.4
1 1215	195		0.037		0.045		0.155	
1 1305	245	0.021		0.130		0.330		0 . 4
1 1315	255		0.101		0.020		0.165	
1 1405	305	0.034		0.080	0/1 00th 100th Days draw cress	0.380		0.4
1 1415	315		0.227		0.015	-	0.185	
1 1505	365	0.053		0.045		0.410		0.4
1 1515	375		0.370		0.015		0.125	
1 1605	425	0.070		0.030		0.410		0.4
1 1615	435		0.472		0.005		0.090	***
2 835	1415	0.012		0.020		0.320		0.3
2 845	1425		0.289		0.015	V+32V	0.015	U+3
2 1005	1505	0.077		0.025	V. VI 3	0.295	0.013	0.3
2 1015	1515		0.268		0.015	V+27J	0.050	0+3
2 1105	1565	0.141		0.020	0.013	0.285	0.030	0.3
2 1115	1575	~	0.262	V+V2V	0,010	V+20J	0.055	
2 1205	1625	0.216		0.015	V, VIV	0.270	0.033	0.2
2 1215	1635		0.259	0.013	0.010	0.270	0.040	V • Z
2 1305	1685	0.318	V+237	0.010	0.010	0.250	0.040	
2 1315	1695	V+310	0,256	0.010	0.010	0.230	0.040	0.2
2 1405	1745	0.415	V+2J0	0.015	0.010	0.215	0.040	0.2
2 1415	1755		0.247	0.013	0,015	0.213	0.045	0.2
2 1505	1805	0.495	V+27/	0.005	0,013	0.185	0.045	0.1
2 1515	1815		0.238	0+003	0.010	0.183	0.040	0+1
	* * * *		V+230		0.010		0+040	

----- NO DATA TAKEN

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0.000         0.000         0.015         0.015         0.11         0.11           0.120          0.490          36.80            0.180          0.495          38.20            0.230          0.485          35.50           0.230	SIDE 1 NO2-UNC FPM B-NOX-1	SIDE 2 NO2-UNC PPM B-NOX-1	SIDE 1 NOX-UNC PPM B-NOX-1	SIDE 2 NOX-UNC PPM B-NOX-1	SIDE 1 THC PPMC BK6800-1	SIDE 2 THC PPMC BK6800-1
0.280          0.470          36.90         34.30           0.330          0.460          36.60         33.70           0.380          0.460          36.40            0.410          0.455          34.90            0.410          0.440          30.90           0.410          0.440          30.90           0.410          0.440          35.80            0.410          0.440          35.80            0.410          0.440          35.80            0.410          0.440          35.80	0.120 0.180	0.150	0.490  0.495	0.490	36.80	35.60
0.410        0.440        35.80          0.320        0.340        29.10         0.320        0.015        27.10         0.295        0.320        34.00          0.285        0.065        26.60         0.270        0.285	0.280	0.155	0.460	0.200  0.185 	36.60  36.40  34.90	34.30  33.70  32.20
0.295        0.320        34.00          0.285        0.310        33.50          0.270        0.285        26.50         0.270        0.285        26.50         0.250        0.050        26.80         0.250        0.040        26.50         0.215	0.410	0.090	made would major sould sould have	0.100	<b>35.</b> 80	29.10
0.185 0.190 32.00	0.295  0.285  0.270  0.250	0.050  0.055  0.040 	0.310  0.285  0.260 	0.065  0.065  0.050	33.50	26.60 26.50 26.80 
			0.190			man and the the last

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AFF- 94 JP-10 VERSUS RJ-4 1981 JUNE 30

		SIDE 1	SIDE 2		SIDE 1	SIDE 2	SIDE 1	SIDI
CLOCK	ELAPSED	T	T	UV RAD	CONDENS	CONDENS	#PART>.3	#PAR
TIME	TIME	TEG C	DEG C	MW/CK2	10E3/CC	10E3/CC	PART/CC	PART.
DY HR.	(MIN)	DORIC-1	DCRIC-1	EPPLEY-2	CNC-143	CNC-143	CLIMET	CLI
1 605	-175	20.3	20.3		0.0	0.0	0.	•
1 835	-25	28.9			0.4		٥.	
1 845	-15		28.0	time were time with mich time		15.0	***************************************	*
l 1005	65	34.1		2.82	0.7		86.	
1 1015	75		35.1	3.82		13.0	the sec of our see one	•
1 1105	125	37.4	**	3.66	0+6		254.	
1 1115	135		38.9	3.66		10.5		31
1 1205	185	39.4		2.93	0.5	juncy rings party space space or an	361.	
1 1215	195		39.6	3.55	optij obije Stat odije stog delig	8.8		281
1 1305	245	39.5		3.79	0.4	100 alon 1000 cycl. 1000 cech.	390.	
1 1315	255	GARL SAIN FRAN TOTAL APPENDING	39.6	3.69	when how drive wide week Print.	7.5	-	41∢
1 1405	305	40.4		3.02	0.3		360.	
1 1415	315		42.5	2.96		6.0		45∢
1 1505	365	39.8		2.50	0 - 3	crim into this man man man	312.	made drips right t
1 1515	375		42.6	2.36		4.8	matte water plant upon water 1820s.	47:
1 1605	425	37.4		1.59	0.1	148 **76 489 **E 148 144	262.	
1 1615	435		38.3	1.50	that and with most title was	3.8		491
0 075	4 4 4 5	0F F			A 5			988 Ser 246 (
2 835 2 845	1415	25.5	25.2		0.2	0.1	4.	161
	1425		23.2	7 4 4	0.0	V+1	11.	10.
2 1005 2 1015	1505	26.4	29.5	2.14	V+V	^ /	11+	12(
	1515 1565	34.2	27.3	3,28 3,55	0.0	0.6	17.	121
2 1105 2 1115	1575	34+i	35.8	3.58	V + V	0.6	1/+	20(
2 1113	1625	37.5	23+0	2,63	0.0	V + O	68.	
	1635	3/+3	38.0			0.5	00+	325
2 1215		38.7	38.0	3.64	0.1	V • 🗃	119.	32: :
2 1305	1685	38./		3.55	0.1		117.	36:
2 1315	1695		40.6	3.46		0.5	177.	361
2 1405	1745	38+6		2.91	0 + 5		7//*	
2 1415	1755		40.2	2.82		0.3	The said and said the said	33;
2 1505	1805	38.9		2.54	0.3		233.	~~~.
2 1515	1815		42.4	2.45	~	0.2		281

---- NO DATA TAKEN

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1 ENS	SIDE 2 CONDENS	SIDE 1 #PART>.3	SIDE 2 #PART>.3	SIDE 1 *PART>.5	SIDE 2 *PART>.5	SIDE 1 #PART>1	SIDE 2 #PART>1 PART/CC
/CC 143	10E3/CC CNC-143	PART/CC CLIMET	PART/CC CLIMET	PART/CC CLIMET	PART/CC CLIMET	PART/CC CLIMET	CLIMET
0	0.0	0.	0.	0.	0.	0.	0 +
. 4		0.		٥.	-	٥.	
	15.0	erest proper proper settles beauty whent	1.		0.		0.
. 7		86.		2.		0.	0.
-	13.0		٥.		0.	0.	V.
. 6	been made and these ment along	254.		46.	0.	U•	0.
	10.5		32.	99.	0.	2.	
٠ 5		361.		99.	33.	<i>≟</i> •	0.
	8.8		282.	120.	33+ 	6.	~
. 4		390.	416.	120.	193.	O+	9.
	7.5	360.	410+	216.	175+	13.	/ T
٠ 3	6.0	360.	456.	2100	314.		65.
.3	6.0	312.	430+	310.	W 1 T F	34.	
· -3	4.8	312+	475.	3101	367.		120.
. 1	4 + 0	262.	7/3+	269.		31.	
+ L	3.8	2026	495.		394.	Print State space of state and	149.
. 2		4.		3.		0.	
	0.1		169.		95.		1.
٠0		11.		7.		2.	
	0+6		120.		117.	3.	4.
٠0	-	17.		12.	96.	٥,	5.
	0.6		200.	39.	70.	7.	
.0		68.		34.	124.	/ + 	11.
	0.5	445	325.	95.	124+	16.	11+
. 1	AL ET	119.	362.	73,	134.	10+	14.
.2	0.5	177.	302+	118.	134+	35.	T.1.+
•2	0.3	1//.	333.	110+	171.		14.
. 3	0.3	233.	223+	162.		42.	40 T T
<del>د</del> .	0.2	233.	282.	102+	207.		14.
<b>}</b> ~	V + Z		404		# W 7 V		,

F. A. ...

AFF- 94 JP-10 VERSUS RJ-4 1981 JUNE 30

CLOCK ELAPSED BSCAT

CLOCK	ELAPSED	BSCAT	BSCAT	ALK . V	AER+V	HER + IV	MEN+11	1174
TIME	TIME	10-4 M-1	10-4 M-1	UM3/CC	UM3/CC	PART/CC	PART/CC	UM2/
DY HR.	(MIN)	MRI-388	MR1-388	TSI-023	TSI-023	TSI-023	TSI-023	TSI-(
1 605	-175	0.3	0.3	٠ د 1	13.	-1026.	-1026.	11(
1 835	-25	0.5		2.		1851.		1 (
1 845	-15		0.7		0.		4.7E 04	
1 1005	65	2.7		6.		5365.		138
1 1015	75		2.1		4.		6.7E 04	
1 1105	125	2.7		-1.		5157.		161
1 1115	135		0.9		30.		6.3E 04	
1 1205	185	4.5		13.		4268.		221
1 1215	195		1.3		30.		5.9E 04	
1 1305	245	4 • 4		5.		3898.	1961 1960 2160 716 2060 1964	15
1 1315	255		0.9		27.		5.6E 04	
1 1405	305	4 + 3		-1.		5658.	desir take some same della	12
1 1415	315		0.8		35.		5.4E 04	
1 1505	365	3.8		-20.		-236.		6
1 1515	375		0.7		34.		4.6E 04	
1 1605	425	3.0		-1.		746.		7
1 1615	435		0.9		33.		3.7E 04	
2 835	1415	0.5	come carte cade chair assure design	1.		-898.		
2 845	1425		1.7	and more and dottle print 4204	8.		807,	
2 1005	1505	0.5		-1.		-626.		-1
2 1015	1515		0.6		13.		3454.	
2 1105	1565	0.5		-0.		266.		
2 1115	1575		0.9		6.		4573.	
2 1205	1625	1.0		1.		185.		2
2 1215	1635		0.5		8.	,	4393.	
2 1305	1685	1.3		7.		-233.		7
2 1315	1695		0.5		1.		4137.	
2 1405	1745	2+3		0.		1312.		4
2 1415	1755		0.4		4.		3452.	
2 1505	1805	2.5		-0.		2715.		6
2 1515	1815		0.5		4.		2606.	

SIDE 1

AER.V

SIDE 2

AER.V

SIDE 1

AER+N

SIDE 2

BSCAT

SIDE 1

SIDE

AER

SIDE 2

AEK . N

---- NO DATA TAKEN

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SIDE 1 AER.N FART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SIDE 1 AER.S UM2/CC TSI-023	SIDE 2 AER.S UM2/CC TSI-023	SIDE 2 RJ-4(A) PPMC	SIDE 2 RJ-4(B) PPMC	SIDE 2 RJ-4(C) PPMC
-1026. 1851.  5365.  5157.	-1026.  4.7E 04  6.7E 04	110. 16.  138. 	110. 154. 804.	1.492	1.078	1.595
4268.  3898. 	5.9E 04  5.6E 04	229. 159.	1329. 1505. 1552.	1,380	1.001	1.469
746.	5.4E 04  4.6E 04  3.7E 04	-67, -78,	1637.  1583.  1485.	1,265	0.965	1.393
-898.  -626. 	807.  3454.	1. -14. 	90.	1.194	0.904	1.328
185.	4573.  4393.  4137.	21.  75.	173. 206. 	1.162	0.888	1.297
1312.  2715.	3452. 2606.	64.	145.	1.098	0.846	1.202

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AFF- 94 JP-10 VERSUS RJ-4 1981 JUNE 30

		ست سويو پېښېر		<b></b>				
71	EL 45.0E5	SIDE 2	SIDE 2	SIDE 2	SIDE 2	SIDE 1	SIDE 1	SII
CLUCK		RJ-4(II)	RJ-4(E)	RJ-4(F)	RJ-4(G)	JP-10	CO	C
TIME	TIME	PPMC	PPMC	PPMC	PPMC	PPM	PPM	PF
DY HR.	(MIN)					VAR 3700	BK6800-1	BK68
1 605	-175	***				***	1.78	1.
1 735	-85					2.076		
1 820	-40			*** *** *** *** ***	-			
1 835	-25				~ ~ ~ ~		1.78	
1 845	-15							1.
1 1005	65					2.338	1.78	
1 1015	75							1.
1 1105	125	*** *** *** *** ***					1.76	
1 1115	135	1.694	4.145	1.333	1.559			1.
1 1200	180							
1 1205	185					1.959	1.85	
1 1215	195							1.
1 1305	245						1.68	
1 1315	255	1.552	3,792	1.234	1.573			1.
1 1405	305						1.85	****
1 1415	315							1.
1 1505	365					2.006	1.85	
1 1515	375							1.
1 1605	425						1.89	
1 1610	430							
1 1615	435	1.456	3.452	1.050	1.385			1.
2 730	1350					2.298		
2 820	1400							
2 835	1415		~				1.93	
2 845	1425	1.363	3.181	0.932	1.559			1.
2 1005 2 1015	1505					2.162	1.95	
	1515				alle this wife and year year			2.
2 1105	1565						1.98	
2 1115	1575	1.329	3.063	0.889	0.969			2.
2 1200 2 1205	1620					~~~~		*** *** ***
2 1205	1625 1635				~	2.113	1.91	
2 1215	1685		~ ~ ~ ~ ~ ~ ~					2.
2 1305	1695	1.332		A 070	4 AA/		2.00	
2 1405	1745	1.332	3.043	0.879	1.446		0.04	2.
2 1405	1745			41 May 1874 1885 1885 1885		2.004	2.01	
2 1415	1805				***************************************			2.
2 1515	1815	1.220	2.743	A 0AE	0.897		2.04	
2 1610	1870	1.220	2+/43	0.805	0.89/			2.
~	* U / V							

----- NO DATA TAKEN

E 2 (G) MC	SIDE 1 JP-10 PPM VAR 3700	SIDE 1 CO PPM BK6800-1	SIDE 2 CO PPM BK6800-1	SIDE 1 PAN PPM ECD-3	SIDE 2 PAN PPM ECD-3	SIDE 1 HCHO PPM CA	SIDE 2 HJHO PPM CA
		1.78	1.78	0.000	0.000		
	2.076			ness spen data data ment data		0.016	0.016
		1.78	1.78	0.000	0.005		
	2.338	1.78	1.82	0.002	0.001		
 559		1.76	1.83	0.001	0.005		
			1.+03			0.023	0.017
	1.959 	1.85	1.86	0.002	0.01.		
57 <b>3</b>		1.68	1.86	0.002	0.006		
		1.85	1.92	0.002	0.005		
	2.006	1.85	1.93	0.000	0.008		
		1.89		0.003		0.027	0.042
385	appa apad apad oraș serr Apir		1.93		0.012	open may seen selfa made Seen	gaing oping come many terms many
	2.292			2000 SAND SAND SAND SAND SAND	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.033	0.038
 559	man man man tree date	1.93	1.94	0.006	0.000		
	2.162	1.95	2.08	0.007	0.008		
969		1.98	2.01	0.006	0.009	the first time time the time	
	2.113	1.91		0.008		0.025	0.027
		2.00	2.10	0.010	0.009		
446	2.004	2.01	2.12	0.012	0.009	ages and the pass and the same	
		2.04	2.02	0.013	0.007		*** *** *** *** ***
897 			2.18		0.006	0.029	0,031

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	CIDE 1	SIDE 2	c
CLOCK	EL ABGED	ACETALD	ACETALD	ACETONE	ACETONE	SIDE 1 PART.024	PART.024	Fra
TIME	TIME	PPM	PPM	PPM	PPM	PART/CC	PART/CC	PA
DY HR.	(MIN)	10'C-600	10'0-600	10'C-600	10'0-600	TSI-023	TSI-023	Т9
DI HK+	(ulk)	10.0-800	10.6-900	10 6-800	10.0-000	151-023	151-023	1 3
1 605	-175	0.0025	0.0025	0.0004	0.0004	-668.	-668.	
1 735	-85	0.0045		0.0009				-
1 835	-25					1837.		
1 845	-15		0.0391 A		0.0024 A		3.9E 04	-
1 915	15		0.0433 A		0.0058 A			-
1 1005	65					501.		
1 1015	75						5678.	-
1 1105	125					334.		-
1 1115	135			AND THE SEE SEE 1985 400		make state take make analy most	4175.	•-
1 1205	185					167.		
1 1215	195						3340.	-
1 1305	245					501.	and the page and the same	
1 1315	255			**** *** *** *** ***			3507.	-
1 1405	305			After piles was been both total	come with bein area form dece	2004.		
1 1415	315						7181.	-
1 1505	365	0.0158		0.0043		-3006.		
1 1515	375						5845.	-
1 1605	425		0.0159		0.0098	-1169.		
1 1615	435						501.	-
				0 0074				
2 715	1335	0.0082		0.0034				1
2 835	1415					-1837.		i
2 845	1425		0.0247		0.0077		-501.	7
2 1005	1505					-669.		
2 1015	1515						-668,	1
2 1105	1565					167.		
2 1115	1575						-334.	~
2 1205	1625		1000 and 1000 table 2000 calls			-1002.		
2 1215	1635						167.	1
2 1305	1685					-668.		~
2 1315	1695						-167.	7
2 1405	1745	0.0239				167.		7
2 1415	1755						334.	1
2 1505	1805					1002.	-	
2 1515	1815		0.0291		0.0090		0 +	•

----- NO DATA TAKEN

2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
ΝE	PART.024	PART.024	PART.042	PART.042	PART.075	PART.075
	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
\$00	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
<u>.</u>						
<b>0</b> 4	-668.	-668.	348.	348.	-1110.	-1110.
-	1837.		0.		-89.	
24 A		3.9E 04	~ ~ ~ ~ ~ ~	6003.		1909.
68 A						
	501.		87.	mines are a seed them there maybe	3952.	THE STATE NAME AND ADDRESS.
-		5678.		2.3E 04		3.6E 04
-	334.		-174.		2620.	
		4175.		4437.		4.8E 04
	167.	Mi,	-87.		1909.	
		3340.		1044.		4.3E 04
	501.	*****	174.		710.	
<u></u>		3507.		1131.		3.5E 04
	2004.	~	870.		400.	F-1 may 1000 tags 1000 2000
		7181.	~	-1479.		2.9E 04
	-3006.	****	522.		355.	*** *** *** ***
		5845.	*** *** *** *** ***	-1740.		2.0E 04
78	-1169.	**********	609.		-266.	
-		501.		2001.		1.3E 04
		**** *** *** *** *** ***		sees tune unte ente Méte again	ander deser faces balle paler forma	
	-1837.	~	1044.		-400.	
77		-501.	***	696.		-622.
	-668.		-87.		0.	~ ~ ~ ~ ~
_		-668.		1218.		2131.
	167.	~ = = = = = =	-87,		0.	
_		-334.	-	174.		2842.
	-1002.		957.		44.	
<del>.</del> -		167.		-348.		2087.
	-668.		-522.		577.	
	**** **** **** ****	-167.		435.		1465.
-	167.	***************************************	-174+		577.	
	*** *** *** ***	334.	***************************************	87.		888.
	1002.		-87.		533.	
90		0.	~~~~	348.		400.

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AFF- 94 JP-10 VERSUS RJ-4 1981 JUNE 30

			SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
	CLOCK	ELAPSED		PART.133	PART.237	PART.237	PART - 422	PART . 422	PART.750	PART.750
	TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
	BY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
	1 605	-175	289.	289.	61.	61.	-7.	-7.	60.	60.
	1 835	-25	121.		-25.		٥.		7.	
	1 845	-15		-361.		148.		100.		-25.
	1 1005	65	892.		-74.		-13.		21.	
	1 1015	75		1253.		148.		-53.		-25.
	1 1105	125	2289.		٥,		133.		-46.	
	1 1115	135		6362.		160.		-93.		63.
	1 1205	185	2289.		-49.		-7.		46.	
	1 1215	195		1.2E 04		271.		13.		18.
	1 1305	245	2651.		-172.		27.		7.	
	1 1315	255		1.6E 04		160.		27.		-14.
	1 1405	305	2289.		123.		-7.		-21.	
	1 1415	315		1.9E 04		308.		٥.		18.
	1 1505	365	2073.		-98.		20.		-102,	
	1 1515	375		2.1E 04		504.		-80.		18.
	1 1605	425	1470.		74.		53.		-25.	
	1 1615	435		2.0E 04		283.		93.		-4.
	2 835	1415	482.		-185.		-13.		11.	
	2 845	1425		1398.		-160.		-47.		42.
	2 1005	1505	337.		-221.		13.		٥.	
•	2 1015	1515		795.		-135.		67.		46.
}	2 1105	1565	169.		37.		-20.		0.	
	2 1115	1575		1880.		37.		-47.		21.
	2 1205	1625	193.		-37.		33.		-4.	
	2 1215	1635		2482.		٥.		-20.		25.
	2 1305	1685	362.		0.		-13.		32.	
	2 1315	1695		2338.		74.		7.		-14.
	2 1405	1745	723.		12.		13.		-7.	
	2 1415	1755		2097.		49.		-7.		4.
	2 1505	1805	1133.		221.		-87.		٥.	
	2 1515	1815		1856.		12.		-20.		11.

----- NO DATA TAKEN

NOTES

POSSIBLE ROOM AIR LEAKAGE INTO SAMPLE MANIFOLD

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0807: START FILL. WET BULB: 6.0; DRY BULB: 36.7; R.H.= 20%

DEW POINT: 9.80

1003: INJECTED 6.2 ML NO2.

1005: INJECTED 20.0 ML NO

1007: INJECTED 0.46 ML PROPANE

1009: INJECTED 0.46 ML PROFENE

1100: BAG UNCOVERED (T=0)

1300: BAG COVERED, END OF RUN.

## RESULTS:

CALC. AVG. OH = 30.8 * D LN(PROPANE/PROPENE)/DT = 0.083(+-0.002) PPT CALC. RAD. INPUT = 16.0 * (AVG.OH) * (60+MIN.AVG.NO2) = 0.19 PPB/BIN -D(NO)/DT = 0.51 PPB/MIN

T=0 AT 1100 PST

RAG NO. 22 USED

S.DEV 1 II INST. **AVERAGE** UNITS VALUE 7 DORIC-1 39.1 1.9 DEG C UV RAD 0.60 EFFLEY 3.65 MW/CM2 INITIAL UNITS I L INST. CONC. NO B-NOX-1 0.440 P'F'M NO2-UNC B-NOX-1 0.120 PFM THC BK6800-1 1.56 PPMC

## INSTRUMENTS USED

IDDESCRIPTION LABEL 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID RM-121 POROPAN-N GC; FID 2100 PN-1 DASIBI 1790 OZONE MONITOR 1790 D-1790 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D DORIC TEMPERATURE INDICATOR, SN 61479 1800 DORIC-1 AF-LAB; 12" 5% CARBOWAX-600 GC; ECD 4000 ECD-Z 4130 EPPLEY ARB LAB; EPPLEY 11692 UV RADIOMETER CHROMOTROPIC ACID HCHO ANALYSIS 3000 CA

AFF- 95 NOX-AIR IRRADIATION 1981, JULY 2

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	OZONE PPM D-1790	NO PPM B-NOX-1	NO2-UNC PPM B-NOX-1	NOX-UNC PPM B-NOX-1	PROPANE PPM DMS-1	PROPENE PPM DMS-1	TH PP BK68
1 1045 1 1100 1 1115 1 1130 1 1145 1 1200 1 1215 1 1230 1 1245 1 1300	-15 0 15 30 45 60 75 90 105 120	0.000 0.000 0.001 0.001 0.002 0.001 0.002 0.002	0.440 0.440 0.420 0.420 0.425 0.410 0.400 0.395 0.380 0.375	0.130 0.120 0.130 0.135 0.135 0.145 0.150 0.150 0.160	0.570 0.560 0.550 0.555 0.560 0.555 0.545 0.545 0.540	0.0145 0.0145 0.0145 0.0145 0.0131 0.0140 0.0146 0.0140 0.0145 0.0147	0,0119 0.0118 0.0111 0.0109 0.0096 0.0098 0.0097 0.0090 0.0088	1. 1. 1. 1. 1.
CLOCK TIME DY HR.	ELAPSED TIME (MIN)	FAN FPM ECD-3	HCHO PPM CA	ACETALD PPM 10'C-600	PROFALD PPM 10'C-600	ACETONE PPM 10'C-600		
l 1045 1 1050 1 1100 1 1115 1 1130 l 1145 J 1200 1 1215 1 1230 1 1245 1 1250 1 1300	-15 -10 0 15 30 45 60 75 90 105 110	0.000	0.010	0.0096	0.0016	0.0021		

---- NO DATA TAKEN

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NC	PROPANE	PROPENE	THC	LNC3/C3=		UV RAD	CO
า	PPM	PPM	PPMC		DEG C	MW/CM2	PPM
(-1	DMS-1	DMS-1	BK6800-1		DORIC-1	EPPLEY	BK6800-1
570	0.0145	0.0119	1.50	0.1998	36.1		1.30
60	0.0145	0.0118	1.56	0.2091	36.7	*** **** **** ***	1.30
350	0.0143	0.0111	1.55	0.2501	37.8	4.41	1.29
555	0.0145	0.0109	1.43	0.2816	37.9	4.27	1.29
560	0.0131	0.0096	1.55	0.3093	38.8	4.09	1.26
55	0.0140	0.0098	1.56	0.3538	40.4	3.09	1.34
545	0.0146	0.0097	1.54	0.4025	40.3	3.91	1.28
145	0.0140	0.0090	1.54	0.4394	40.4	3.37	1.33
540	0.0145	0.0088	1.42	0.4998	41.2	3.28	1.33
540	0.0147	0.0087	1.50	0.5260	41.3	2.77	1.34
ALD	ACETONE						
1	PPM						
/ / / /	10/0 /00						

600 10'C-600

0.0021

004

ИО

THC

THC

NO2-UNC

NO2-UNC

B-NOX-1

B-NOX-1

B-NOX-1

BK6800-1 33.90

BK6800-1 34.70

0.196

0.121

0.065

PPM

PPM

PPM

PPMC

PPMC

SIDE 2

SIDE 1

SIDE 2

SIDE 1

SIDE 2

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AFF- 97
RJ-4: VARIABLE NOX
1981, JULY 8-9
DAY 1
        (JULY 8)
  0445: START FILL. WET: 6.0; DRY: 0.0; DRY BULB TEMP: 28.9C; RH=33%
  0618: INJECT 624 MICROLITERS RJ-4 AT 250C FOR 30 MINUTES.
  0653: DIVIDE BAG.
  0710: INJECT 2.5 ML NO2 INTO SIDE A
  0712: INJECT 9.0 ML NO INTO SIDE A
  0720: INJECT 1.25 ML NO2 INTO SIDE B
  0722: INJECT 4.5 ML NO INTO SIDE B
  0900: UNCOVER BAG (T=0)
  0905: WEATHER: SUNNY, HOT.
  1620: END SAMPLING, DAY 1
DAY 2
        (JULY 9)
  0900: BAG UNCOVERED (T=0)
  0905: WEATHER: HOT, SUNNY
  1520: RUN ENDED
RESULTS
                       DAY 1
                                            DAY 2
... .. .. ... ... ...
                       37(+-2)
AVG.T(DEG.C)
                                            37(1-2)
AVG.UV(MW/CM2)
                       2.8(+-0.8)
                                            2.7(+-0.5)
T=0 AT 900 PST
BAG NO.
          22 USED
  I D
           INST.
                   AVERAGE
                             S.DEV UNITS
                    VALUE
T
         DORIC-1
                    35.0
                             5.5
                                      DEG C
                                               SIDE 1
                                               SIDE 2
T
         DORIC-1
                    35.2
                             5.0
                                       DEG C
UV RAD
         EPPLEY-2 2.74
                                      MW/CM2
                            0.67
  ID
           INST.
                   INITIAL
                             BTINU
                   CONC.
                                      SIDE 1
NO
         B-NOX-1
                    0.380
                              PPM
```

AFF- 97

RJ-4: VARIABLE NOX 1981, JULY 8-9

## INSTRUMENTS USED

SAMPLING RATE

IB	LABEL	DESCRIPTION	(ML/MIN)
2100	PN-1	RM-121 POROPAK-N GC; FID	
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2920	10'C-600	RM-121; 10' 10% CARBOWAX-600 GC; FID	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OPTICAL PART, CTR; SN:76-148	
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; FN143	
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC, FID	
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 GC; ECD	
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	
3000	CA	CHROMGTROPIC ACID HCHO ANALYSIS	

AFF- 97 RJ-4: VARIARLE NOX 1981, JULY 8-9

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 OZONE PPM D-1790	SIDE 2 OZONE PPM D-1790	SIDE 1 NO PPM B-NOX-1	SIDE 2 NO PPM B-NOX-1	SIDE 1 NO2-UNC PPM B-NOX-1	SIDE 2 NO2-UNC PPM B-NOX-1	SID NOX- PP B-NO
1 605	-175	0.000	0.000	0.010	0.040	0.004		
1 835	-25	0.000	0.000	0.010	0.010	0.001	0.001	0.
1 845	-15	0.001	0.002	0+380	0,196	0.121		٥.
1 1005	65	0.004	0+002	0.302	0.176		0.065	
1 1015	7 <b>5</b>		0.011	0.302	0.130	0.173		۰.
1 1105	125	0.010	0.011	0.232	0.130	0.227	0.114	
1 1115	135	~~~~	0.029	· · · · · · · · · · · · · · · · · · ·	0.074	V + Z Z /		٥,
1 1205	185	0.018	V+V2/	0.150	0.074		0.158	
1 1215	195	V+V10	0.075	0+130	0.033	0.285		٥,
1 1305	245	0.043	U+U/3	0.072	0+033		0.179	
1 1315	255		0,169	0.072	0.019	0.345	~~~~~	0.
1 1405	305	0,102	V+1Q7	0.032	0.019		0.150	
1 1415	315	0+102	0.274	0.032	0.016	0.349	0.440	٥.
1 1505	365	0.186	0+2/4	0.019	0,016		0.118	
1 1515	375	V+100	0.364	V+V17	0.013	0.322	0.062	0.
1 1605	425	0.278	V+307	0.013	V.UI3	0.261	0.062	
1 1615	435	V.270	0.382	0.010	0.011	0.201		٥.
1 1010	700		0+20£		0.011		0.037	
2 835	1415	0.044		0.011		0.018		٥.
2 845	1425		0.278		0.014		0.011	
2 1005	1505	0.085	****	0.012		0.020		٥.
2 1015	1515		0.260		0.014		0.021	
2 1105	1565	0.111		0.011		0.021		٥.
2 1115	1575		0.252		0.012		0.022	~
2 1205	1625	0.134		0.011		0.023		٥.
2 1215	1635	~ ~ ~ ~ ~ ~	0.246		0.011		0.022	w
2 1305	1685	0.155	***	0.011		0.024		0.
2 1315	1695		0.236		0.012		0.023	······································
2 1405	1745	0.168		0.012	tern Turn true atthe seed seed	0.030	~~ ~~~	٥,
2 1415	1755		0.227		0.012		0.028	
2 1505	1805	0.175		0.011		0.028		0.
2 1515	1815	erin desig mang paga aana aana	0.217		0.012		0.027	

----- NO DATA TAKEN

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SIDE 1 NO2-UNC PPM B-NOX-1	SIDE 2 NO2-UNC PPM B-NOX-1	SIDE 1 NOX-UNC PPM B-NOX-1	SIDE 2 NOX-UNC PPM B-NOX-1	SIDE 1 THC PPMC BK&800-1	SIDE 2 THC PPMC BK6800-1
0.001 0.121	0.001	0.011 0.508 	0.011	0,46 33,90  33,70	0.46  34,70
0.173	0.114	0.481 	0.246	33.10	34.30  33.90 
0.285	0.179  0.160	0.430	0,212  0,178	32.10	33.30  32.50 
0.349  0.322 	0.118	0.342	0.131	29.70	31.20
0.018	0.037	0.026	0.045	25.90	29.40
0.020	0.021	0.031	0.030	25.20	28.80
0.023	0.022	0.032	0.031	25.00  24.50  24.30	28.10
0.030	0.028 	250.0  850.0	0.036	23.30	27.60  27.30

-4-2-1-2-2-2

AFF- 97 RJ-4: VARIABLE NOX 1981, JULY 8-9

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 T DEG C DORIC-1	SIDE 2 T DEG C DORIC-1	UV RAD MW/CM2 EPFLEY-2	SIDE 1 CONDENS 10E3/CC CNC-143	SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 *PART).3 PART/CC CLIMET	SIDF #PART PART/( CLIM
1 605	-175	20+6	20.6		0.0	0.0	0.	0
1 835	-25	27.3			12.0		0 +	
1 845	- 15		29.2			11.0		0
1 1005	65	32.0	age, gade signs & last sides bades	2.09	i1.5		0 +	
1 1015	75		35.5	3.46		11.3		0
1 1105	125	36.2	AND DOC 2005 NAT THE TOTAL	3.69	9.2	man and the last state of	0.	
1 1115	135		37.0	3.69		9.0		2
1 1205	185	38 + 4		3.00	7.9		54.	001
1 1215	195		38.0	3.64	-	7.1		221
1 1305	245	40.0		3.46	6.1		308.	405
1 1315	255		39.5	3.37		5.7	415.	403
1 1405	305	39.3		2.77	4.7		415.	450
1 1415	315		37.9	2.59		4.3	447.	430
1 1505	365	38.2		2.27	3.5		44/+	464
1 1515	375		37.5	2.18		3.2	465.	
1 1605	425	36.5		1.46	2,3		460+	465
1 1615	435		35.0	1.32		2+2		400
					2 2		121.	
2 835	1415	28.6		page many speed bottle field from	0.0	0.0	16.1+	170
2 845	1425		29.5			0.0	81.	
2 1005	1505	32.3		2.41	5,6	0.4	01+	127
2 1015	1515		33.7	2.91	4.4	0.4	201.	
2 1105	1565	35.9		3.37	4 + 4	0.3		189
2 1115	1575		36.2	3.28	3.1		335.	
2 1205	1625	37.3	70.0	2.77	3.1	0.1		294
2 1215	1635		38+8	3.28	2.1	V+1	384.	
2 1305	1685	39.3	70 /	2,82 2,77	2 + 1	0.0		338
2 1315	1695	A.O. O.	38.6	2.45	1.4		400.	
2 1405	1745	40.0			1+4	0.0		295
2 1415	1755		39.0	2.32	1.1		386.	
2 1505	1805	39.4		2.00	1.4.1	0.0		233
2 1515	1815	pages taken driven beginn believe	38.0	1.91	and the control of the	V+V		

----- NO DATA TAKEN

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SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 #PART>.3 PART/CC CLIMET	SIDE 2 #PART>.3 PART/CC CLIMET	SIDE 1 #PART>.5 PART/CC CLIMET	SIDE 2 *PART>.5 PART/CC CLIMET	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 #PART>1 PART/CC CLIMET
0.0  11.0  11.3	0. 0.	0. 0.	0. 0.	0. 0.	0. 0. 0.	0.
9.0	0. 54.  308.	221.	0.  0. 	0.	0. 	0. 0.
5.7  4.3  3.2	415.	405.  450.  464.	194.	169.  294.  336.	9. 	5. 51. 
2.2	121.	465.	110.	331.	2.	81.
0.4	81. 201.  335.	127.  189. 	79.  62.  104.	95. 94. 	2. 2. 5.	1.  3. 
0.1  0.0  0.0	384. 400.  386.	274. 338.  299. 	167. 192. 180.	114.	10.	7.  8. 

AFF- 97

RJ-4: VARIABLE NOX 1981, JULY 8-9

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2 AER+N	SIDI AER
CLOCK	ELAPSED		BSCAT	AER.V	AER.V	AER+N		UM2.
rime	TIME	10-4 M-1	10-4 M-1	UM3/CC	UM3/CC	PART/CC	FART/CC	TSI-
DY HR.	(MIM)	MRI-388	MRI-388	TSI-023	TSI-023	TSI-023	TSI-023	151-
1 605	-175	0.2	0.2	-3.	-3.	353.	353.	-41
1 735	-85							A
1 835	-25	0.2		1.		1.7E 04		4 -
i 845	-15		0.2		2.		1.7E 04	
1 1005	65	1.2		11.		4.7E 04		641
1 1015	75		1.8	ERRE PRINT CO. CO. STORY STORY FORM	11.		4.5E 04	
1 1105	125	3.6		12.		4.4E 04		80:
1 1115	135		5.6		7.		1.0E 04	
1 1205	185	8.3		16.		4.2E 04		94
1 1215	195		16.0		15.		4.1E 04	
1 1305	245	19.0		18.		4.4E 04		104
1 1315	255		29.0		22.		4.9E 04	
1 1405	305	29.0		22.		3.8E 04		114
1 1415	315		40.0		26.		4.0E 04	
1 1505	365	40.0		25.		3.5E 04		116
1 1515	375		53.0		24.	and the same and a same	3.3E 04	
1 1605	425	50.0		26.		2.9E 04		111
1 1615	435		50.0		30.		2.5E 04	
0 700	1340							
2 720		ALC: 100 Feb 100 170 170						
2 830	1410	2.5		2.		1319.		5
2 835	1415	<u> </u>	3.0		6.		285.	
2 845		5.2	3.0	12.		2.7E 04		58
2 1005		J + £			3.		4636.	
2 1015			3.4	13.		2.4E 04		64
2 1105		12.0		10+	5.	2.47L V-1	4701.	
2 1115			5.2		U+ 	2.8E 04		63
2 1205		17.0		13.		2+0E V7	5346.	
2 1215			7.2		2.	1.8E 04	33461	54
2 1305		19.0		11.		1.85 04	3761.	
2 1315			7.0		3.		3/01+	43
2 1405		20.0		10.		1.3E 04	3266.	
2 1415		***	5.6		-3.		3200+	38
2 1505		16.0		13.		1.0E 04		
2 1515	1815		4.5		6.		2438.	

--- NO DATA TAKEN

SIDE 1 AER.N PART/CC	SIDE 2 AER.N PART/CC	SIDE 1 AER.S UM2/CC	SIDE 2 AER.S UM2/CC	SIDE 1 RJ-4(A) PPMC	SIDE 2 RJ-4(A) PPMC
TSI-023	TSI-023	TSI-023	TSI-023	VAR 3700	VAR 3700
353.	353.	-41.	-41.		
			~~~	1.376	
1.7E 04		44.			
	1.7E 04	*************	53.		1.569
4.7E 04		643.	proje adore Stage skyld bladd bladd	1.576	
	4.5E 04	*** *** *** *** ***	637.		
4.4E 04		802.			
	4.0E 04		724.		1.516
4.2E 04		942.		1.514	
ages where made made with sample	4.1E 04		932.		
4.4E 04		1048.			
	4.9E 04		1085.		
3.8E 04		1147.			
	4.0E 04		1131.		1.450
3.5E 04		1168.		1.409	
	3.3E 04		1072.		
2.9E 04		1113.			
	2.5E 04		1002.	0000 TTT 400+ 1001 TT04 6400	1.373
					1.321
				1.273	
1319.		53.	~		
	285.	~	97.		
2.7E 04		588.			
	4636.		113.		1.325
2.4E 04		645.		1.229	
	4701.		148.		
2.8E 04		630+			
	5346.		133.		1.268
1.8E 04		541.			
	3761.		127.		
1.3E 04		438.		1.140	
	3266.		70.		
1.0E 04		383.			
	2438.		113.		1.213

AFF- 97 RJ-4: VARIABLE NOX 1981, JULY 8-9

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 RJ-4(B) PPMC VAR 3700	SIDE 2 RJ-4(B) PPMC VAR 3700	SIDE 1 RJ-4(C) PPMC VAR 3700	SIDE 2 RJ-4(C) PPMC VAR 3700	SIDE 1 RJ-4(D) PPMC VAR 3700	SIDE 2 RJ-4(D) PPMC VAR 3700	SI RJ- P VAR
1 735	-85	1.012	4 45/	1.427	4 74/	1.525	+ 07/	3
1 845	-15	1.180	1.186	1.735	1.746	1.861	1.836	4
1 1005	65 135	1+190	1.130	1./33	1,667	1+001	1.782	
1 1205	185	1.130	1+130	1.657	1400/	1,767		4
1 1415	315	1.100	1.094		1.601		1.699	
1 1505	365	1.068		1.560		1.634		3
1 1615	435		1.051		1.546		1.621	· eu
2 720	1340	affic som bom spin som skin	1.013		1.496		1.563	
2 830	1410	0.996		1.473		1.493		3
2 1015	1515		1.022		1.513		1.565	
2 1105	1565	0.963		1.422		1.422		3
2 1215	1635		0.979		1.426		1.481	
2 1405	1745	0.882		1.316		1.328		3
2 1515	1815		0.940	rang gard, 1979 beat damp gards	1.361		1.406	
								l.

---- NO DATA TAKEN

SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
RJ-4(B)	RJ-4(D)	RJ-4(E)	RJ-4(E)	RJ-4(F)	RJ-4(F)
PPMC	PPMC	PPMC	PPMC	PPMC	PPMC
VAR 3700					
1.525		3.774		1.364	
	1.836		4.487		1,579
1.861		4.628		1.595	
	1.782		4.419		1.548
1,767		4.345		1.507	
	1.699		4.153		1.527
1.634		3.948		1.410	
	1.621		3.911		1.415
	1.563		3,767		1.404
1.493		3.469		1.136	
	1.565		3.699		1.258
1.422		3.262		1.093	
	1,481		3.510		1.223
1.328		3.041		0.901	
	1,406		3.303		1.140

AFF- 97 RJ-4: VARIABLE NOX 1981, JULY 8-9

CLGCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 RJ-4(G) PPMC VAR 3700	SIDE 2 RJ-4(G) PPMC VAR 3700	SIDE 1 CO FPM BK6800-1	SIDE 2 CO PPM BK6800-1	SIDE 1 PAN PPM ECD-3	SIDE 2 FAN FFM ECD-3	SI H P
1 605	-175		***************************************	0.75	0.75	0.000	0.000	 -
1 735	-85	1.995					~~~-	
1 805	-55		anny appa pant upon abou soud			0.000		0
1 835 1 845	-25 -15		2.500	0.81	0.93	0.000	0.000	
1 1005	65	2.382		0.95	V+73	0.001		
1 1015	75				0.92		0.001	
1 1105	125		some usus menn plane benne uven	0.92		0.001	***************************************	****
1 1115	135		2.257		0.94		0.001	
1 1200	180							0
1 1205	185	1.997		0.95		0.001		
1 1215	195			0.94	0.95	0.002	0.002	
1 1305 1 1315	245 255			0.74	1.00	0.002	0.004	
1 1405	200 305		cope days some rude some some	1.00	1+00	0.004		
1 1415	315	*** *** *** ***	2.104		1.03		0.007	
1 1505	365	1.916		1.00		0.006	***	
1 1515	375			\$400 State State Apple \$500 State	1.03		0.009	
i 1605	425			1.06		0.009		
1 1610	430			1001 0100 3947 0500 3064 1004	***************************************			0 -
1 1615	435	de there emps your authorisem	1.566		1.03		0.011	
2 720	1340		2,037					
2 810	1390		2+00/	tion arm ages vise file days	-			٥,
2 830	1410	1.554						
2 835	1415			1.06		0.005		
2 845	1425	the plan of a first black area		Ju www dash 50% 750 Feb	1.07		0.001	-
2 1005	1505	~~~~~~~~~		1.09		0.007		
2 1015	1515	SEER SECUL AFTER SINGLE ANTITY FROM	1.743	**** **** **** **** ****	1.08		0.006	
2 1105	1565	1.362		1.12		0.007		
2 1115	1575				1.13		0.006	~~-
2 1200	1620			1 17		0.007		0.
2 1205 2 1215	1625 1635		1.591	1.17	1.18	0.00/	0.006	
2 1305	1685		1+3/1	1.20	1.10	0.006		
2 1315	1695				1.22		0.005	
2 1405	1745	0.934		1.24		0.006		
2 1415	1755				1.25		0.005	
2 1505	1805		1000 case case case from 1000	1.28		0.007		
2 1510	1810	***						٥,
2 1515	1815		1.463		1.30		1.005	

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SIPE 1 PAN PPM ECD-3	SIDE 2 PAN PPM ECU-3	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 FART.024 PART/CC TSI-023
0.000	0.000			501.	501.
		** ** ** ** **			
		0.006	0.004		
0.000				1.6E 04	1077 data 1000 10mm ands 2014
	0.000		··· ··· ··· ··· ··· ···		1.6E 04
0.001				2171.	
	0.001		*** *** *** *** ***		2338.
0.001				668.	
when stem river price bear book	0.001		~ ~ ~ ~ ~ ~		-668.
		0.010	0.008		
0.001		ages white first roles owns and		0.	
	0.002				-167.
0.002				-1503.	
	0.004		-		2672.
0.004				334.	
	0.007			~ ~ ~ ~ ~ ~ ~	-167.
0.006				1169.	*** *** *** ***
	0.009			~ ~ ~ ~ ~ ~	1336.
0.009				501.	
		0.029	0.019		POV MAR SERV MAR SALE MAR
	0.011				-3173.
		0.044	0.031	Note that you saw you say	
0.005				167.	
	0.001				~1169.
0.007				501.	
	0.006				668.
0.007				167.	
	0.006				167.
		0.044	0.031		
0.007				7515.	
	0.006	and the same and and areas			1002.
0.006	A AAE			1503.	
^ ^^/	0.005				334.
0.006	^ ^^E			334.	
	0.005			4665	501.
0.007		A AEA	A AAA	1002.	*** *** *** ***
	^ ^^=	0.059	0.029		4 / 44
	0.005		~ ~ ~ ~ ~ _		167.

AFF- 97 RJ-4: VARIABLE NOX 1981, JULY 8-9

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDI
CLOCK TIME	ELAPSED TIME	PART.042 PART/CC	PART O42	PART - 075	PART O75	PART,133	PART.133 PART/CC	PART
DY HR.	(MIN)	TSI-023	PART/CC TSI-023	FART/CC TS1-023	PART/CC TSI-023	PART/C3 TSI-023	TSI-023	PART, TSI-
ni uk+	7111147	121-052	151-023	131-023	151-023	151-023	151-023	121-1
1 605	-175	- 435 •	~435.	355.	355.	24.	24.	-17
1 835	-25	522.		488.		-120.		61
1 847	-15	140, 200 ton 200 Min min	87.	-	178.	mark office made years assess	-24.	
1 1005	65	2.1E 04		2.3E 04		988.		9{
1 1015	75		1.5E 04		2.6E 04		1036.	
1 1105	125	7047.	per ter our err per sing	3.4E 04	ample paper paper active active blader	2530.		234
1 1115	135	anys and had took mile ages	4089.	That happy alphy spars apply \$400.	3.5E 04		2289.	
1 1205	185	1653,		3.5E 04	tren state auto brest trees freis.	5109,	state story and other pages and	87
1 1215	195		1566.		3.4E 04		5374.	
1 1305	245	2175.		3.6E 04		6724.		7⁴
1 1315	255		3741.		3.5E 04		4848.	
1 1405	305	522.		2.5E 04		1.2E 04		127
1 1415	315		1218.		3.0E 04		9592.	
1 1505	365	957.	200 Mer 100 Mar 100 Mer 100	1.9E 04		1.3E 04		209
1 1515	375		2175.	Affin seats 1876 water some from	1.7E 04		1.2E 04	
1 1605	425	348.		1.4E 04		1.4E 04		258
1 1615	435	other place from other wire www	1653.	there does profe and your rolls	1.5E 04		1.1E 04	***
2 835	1415	783.	ps. 70 30000 Tage above serve again	-488.		819.		25
2 845	1425		435.		444.		458.	
2 1005	1505	2958.		2.1E 04		2771.		49
2 1015	1515		435.		2753.		747.	
2 1105	1565	0.		1.9E 04		4699.		-25
2 1115	1575		-87.		3419.		1205.	
2 1205	1625	435.		1.5E 04		5760.	-	(
2 1215	1635		348.		2442.		1518.	
2 1305	1485	-783.		1.1E 04		5519.		160
2 1315	1695		-261.		2220.		1518.	
2 1405	1745	435.		7459.		5278,		-84
2 1415	1755		0.		1376.		1350.	
2 1505	1805	348,	some after fight time class area	4440.	975d name again think block 9554	4362.		12
2 1515	1815		261.		977.		1012.	

[2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
75	PART.133	PART - 133	PART,237	PART+237	PART.422	PART.422
C	PART/CC	PART/CC	PART/CC	PART/CC	PART/LC	PART/CC
23	TSI-023	TSI-023	TSI-023	191-023	TSI-023	TSI-023
	24.	24.	-12.	-1k.	-80+	-80.
-	-120.		61.		0.	~~~~~
		-24.	_	٥.		40 +
	988.		98.	-	73.	
04	and then any can are than	1036.		25.		33.
ļ -	2530.		234.	***********	-47.	
04		2289.		-62.	-	-33.
-	5109.		86.	-	٥.	
04	eres there same name again has	5374.		49.	***************************************	27.
-	6724.		74.		0.	
04	s and hade more proper primer figure	.888		86.		0.
	1.2E 04		123.		13.	
04		9592.		٥.		20.
-	1.3E 04		209.		80.	
04	and the second second second	1.2E 04		111.		13.
r-	1.4E 04		258.		13.	
04		1.1E 04		٥.		٥.
	819.		25.		13.	desir later town track price price
		458.	_~	49.		53.
	2771.		49.		33.	
		747.		0.	~	33.
-	4699.		-25.		80.	
		1203.		-37.		27.
-	5760.		0.		67.	
		1518.		49.		-13.
	5519.		160.		0.	
	want ning gaps game butter says	1518.		-74.		20.
-	5278.	ands ands down spile spen delib	-86.	have altha mare attill your even	33.	
•		1350.		37.		33.
	4362.		12.	7100 000 000 IF 7 000 0101	0.	
	able from some ness again	1012.		٥.		Λ.

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AFF- 97 RJ-4: VARIABLE NOX 1981, JULY 8-9

	CLOCK TIME (HR.	ELAPSED TIME (MIN)	SIDE 1 PART.750 PART/CC TSI-023	SIDE 2 PART.750 PART/CC TSI-023
1 1 1	605 835 845	-175 -25 -15	o. o.	 0.
i	1005	65	0.	
1	1015	75		7.
1	1105	125	7.	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
1	1115	135		-7.
1	1205	185	4 +	
1	1215	195		-4.
1	1305	245	4.	
1	1315	255		21.
1	1405	305	0.	
1	1415	315		32.
1	1505	365	٥.	4.0
1	1515	375	40	18.
1	1605 1615	425 435	18.	60.
.1.	1013	433		80.
2	835	1415	0.	
2	845	1425		14.
2	1005	1505	11.	
2	1015	1515		0.
2	1105	1565	٥.	
2	1115	1575		7.
2	1205	1625	0.	
2	1215	1635		0.
2	1305	1685	4 +	
2	1315	1695		4.
2	1405	1745	4.	70
2	1415 1505	1755	32,	-32.
2 2	1505 1515	1805 1815	32+	21.
£.	1919	1912		21+

----- NO DATA TAKEN

NOTES

A INJECTION FROM SIDE A STILL COMING OUT UNDER THIS. VALUE IS TOO HIGH. CARRIER GAS FLOW CONTROLLER MALFUNCTIONING ON THE VARIAN FOR THE POINTS 11405 AND 11515 SO RETENTION TIMES HAVE CHANGED. POSSIBLE EFFECT ON AREAS.

AFF- 98 RJ-4 VS N-BUTANE 1981, JULY 10

0445: START FILL, WET: 6.0; DRY: 0.0; WET BULB TEMP: 14.3 C; DRY BULB TEMP: 21.0 C; RH: 48% 0630: INJECT 5.0 ML NO2 0632: INJECT 18.0 ML NO 0635: DIVIDE BAG 0644: INJECT 312 MICROLITERS RJ-4 AT 250 C INTO SIDE A 0704: INJECT 125 ML N-BUTANE INTO SIDE B 0900: UNCOVER RAG 0905: WEATHER: HOT, SUNNY 1620: END RUN T=0 AT 900 FST HAG NO. 22 USED TT INST. AVERAGE S.DEV UNITS VALUE DORIC-1 34.7 6.2 DEG C SIDE 1 34.7 DEG C DORIC-1 5.6 SIDE 2

Ţ Т UV RAD EPPLEY-2 2.88 0.71 MW/CM2 \mathbf{I} INST. INITIAL UNITS CONC. NO B-NOX-1 PPM 0.366 SIDE 1 SIDE 2 NO. B-NOX-1 0.369 PPM NO2-UNC B-NOX-1 PPM 0.121 SIDE 1 NO2-UNC B-NOX-1 0.128 PPM SIDE 2 VA1400-7 5.5365 N-C4 SIDE 2 PPM BK6800-1 34.30 THC PPMC SIDE 1 THC BK6800-1 41.70 PFMC SIDE 2

INSTRUMENTS USED

DESCRIPTION ΙD LABEL 1790 D-1790 DASIBI 1790 OZONE MONITOR 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 4000 ECD-3 AF-LAB; 12" 5% CARBOWAX-600 GC; ECD 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG 4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030 CLIMET 208 OPTICAL PART, CTR; SN: 76-148 4350 CLIMET 4400 MRI-388 MRI INTEGRATING NEPHELOMETER MD:1550R ENV ONE RICH100 CONDENS NUCLEI CTR; SN143 4200 CNC-143 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2100 PN-1 RM-121 POROPAK-N GC; FID 1400 VA1400-7 RM-121; C20-M/DC-703 GC; FID 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 OZONE PPM D-1790	SIDE 2 OZONE PPM D-1790	SIDE 1 NO PPM B-NOX-1	SIDE 2 NO PPM B-NOX-1	51DE 1 NO2-UNC PPM B-NOX-1	SIDE 2 NO2-UNC PPM B-NOX-1	SIDI NOX-I PPI B-NO:
1 605	-175	0.000	0.000	0.002	0.002	0.001	0.001	0.(
1 835	- 25	0.000		0.366		0.121		0 + 1
1 845	15		0.000		0.369		0.128	3,000 today +100, 41
1 915	15							
1 1005	65	0.004		0.292		0.168		0+4
1 1015	75		0.008		0.220		0.247	
1 1105	125	0.008		0.221		0.218	A 747	0 + 4
1 1115	135	0.010	0.024	0.170	0.114	0.204	0.347	
1 1205 1 1215	185 195	0.019	0.080	0.139	0.040	0.284	0.422	9.4
1 1305	245	0.045	0.000	0.064		0.341	V+422	0 . 4
1 1315	255	V+V+3	0.193		0.014	V+371	0.437	
1 1405	305	0.108		0.022		0.347		0.3
1 1415	315		0.321		0.010		0.417	
1 1505	365	0.204		0.011		0.312		0+3
1 1515	375		0.450		0.009		0.390	
1 1605	425	0.303		0.007		0.242		0.2
1 1615	435		0.530	THE STAL SAME AND STREET PING.	0.008		0.359	
		SIDE 1	SIDE 2	SIDE 1	SIDE 2		SIDE 1	SIDE
CLOCK	ELAPSED	SIDE 1 THC	SIDE 2 THC	SIDE 1 T	SIDE 2 T	UV RAD	SIDE 1 CONDENS	SIDE
CLOCK TIME	ELAPSED TIME		SIDE 2 THC PPMC	SIDE 1 T DEG C		UV RAB MW/CM2		
		THC	THC	T	T		CONDENS	CONDE
TIME DY HR.	TIME (MIN)	THC PPMC BK6800-1	THC PPMC BK6800-1	T DEG C DORIC-1	T DEG C DORIC-1	MW/CM2	CONDENS 10E3/CC CNC-143	CONDE 10E3/ CNC-1
TIME DY HR. 1 605	TIME (MIN) -175	THC PPMC BK6800-1	THC PPMC	T DEG C DORIC-1	T DEG C	MW/CM2	CONDENS 10E3/CC CNC-143	CONDE 10E3/
TIME DY HR. 1 605 1 835	TIME (MIN) -175 -25	THC PPMC BK6800-1	THC PPMC BK6800-1	T DEG C DORIC-1	T DEG C DORIC-1	MW/CM2	CONDENS 10E3/CC CNC-143	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835	TIME (MIN) -175	THC PPMC BK6800-1 0.91 34.30	THC PPMC BK6800-1	T DEG C DORIC-1 21.6 28.7	T DEG C DORIC-1 21.6	MW/CM2 EPPLEY-2	CONDENS 10E3/CC CNC-143 0.0 23.8	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845	TIME (MIN) -175 -25 -15	THC PPMC BK6800-1 0.91 34.30	THC PPMC BK6800-1 0.91 41.70	T DEG C DORIC-1 21.6 28.7	T DEG C DORIC-1 21.6 30.1	MW/CM2 EPPLEY-2	CONDENS 10E3/CC CNC-143 0.0 23.8	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845 1 1005	TIME (MIN) -175 -25 -15 -65	THC PPMC BK6800-1 0.91 34.30 33.80	THC FFMC BK6800-1 0.91 41.70	T DEG C DORIC-1 21.6 28.7	T DEG C DORIC-1 21.6 30.1	MW/CM2 EPPLEY-2 2.02	CONDENS 10E3/CC CNC-143 0.0 23.8 	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015	TIME (MIN) -175 -25 -15 -65 75	THC PPMC BK6800-1 0.91 34.30 33.80	THC FFMC BK6800-1 0.91 41.70 41.00	T DEG C DORIC-1 21.6 28.7 	T DEG C DORIC-1 21.6 30.1 34.5	MW/CM2 EPPLEY-2 2.02 3.09	CONDENS 10E3/CC CNC-143 0.0 23.8 	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105	TIME (MIN) -175 -25 -15 -15 -75 125	THC PPMC BK6800-1 0.91 34.30 33.80 	THC FFMC BK6800-1 0.91 41.70 41.00	T DEG C DORIC-1 21.6 28.7 32.6	T DEG C DORIC-1 21.6 30.1 34.5	MW/CM2 EPPLEY-2 2.02 3.09 3.54	CONDENS 10E3/CC CNC-143 0.0 23.8 18.0	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215	TIME (MIN) -175 -25 -15 -65 75 125 135 185 195	THC PPMC BK6800-1 0.91 34.30 33.80 33.50	THC PPMC BK6800-1 0.91 41.70 41.60 41.40	T DEG C DORIC-1 21.6 28.7 32.6 35.0 38.7	T DEG C DORIC-1 21.6 30.1 34.5	MW/CM2 EPPLEY-2 	0.0 23.8 13.5 11.2	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305	TIME (MIN) -175 -25 -15 -65 75 125 135 185 195 245	THC PPMC BK6800-1 0.91 34.30 33.80 33.50	THC FFMC BK6800-1 0.91 	T DEG C DORIC-1 21.6 28.7 32.6	T DEG C DORIC-1 21.6 30.1 34.5 37.2 38.7	MW/CM2 EPPLEY-2 2.02 3.09 3.54 3.82 2.96 3.46 3.55	CONDENS 10E3/CC CNC-143 0.0 23.8 18.0	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305 1 1315	TIME (MIN) -175 -25 -15 -65 75 125 135 185 195 245 255	THC PPMC BK6800-1 0.91 34.30 33.80 33.50 33.20 32.80	THC FFMC BK6800-1 0.91 	T DEG C DORIC-1 21.6 28.7 32.6 35.0 40.1	T DEG C DORIC-1 21.6 30.1 34.5 37.2 38.7	MW/CM2 EPPLEY-2 2.02 3.09 3.54 3.82 2.96 3.46 3.55 3.46	0.0 23.8 	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305 1 1315 1 1405	TIME (MIN) -175 -25 -15 -15 125 135 185 195 245 255 305	THC PPMC BK6800-1 0.91 34.30 33.80 33.50 33.20 32.80	THC FFMC BK6800-1 0.91 41.70 41.00 41.40 41.50	T DEG C DORIC-1 21.6 28.7 32.6 35.0 38.7	T DEG C DORIC-1 21.6 30.1 34.5 37.2 38.7	MW/CM2 EPPLEY-2 2.02 3.09 3.54 3.82 2.96 3.46 3.55 3.46 3.09	0.0 23.8 	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305 1 1315 1 1405 1 1415	TIME (MIN) -175 -25 -15 -15 125 135 185 195 245 255 305	THC PPMC BK6800-1 0.91 34.30 33.80 33.50 33.20 32.80 31.80	THC FFMC BK6800-1 0.91 	T DEG C DORIC-1 21.6 28.7 32.6 35.0 40.1 39.4	T DEG C DORIC-1 21.6 30.1 34.5 37.2 38.7	MW/CM2 EPPLEY-2 2.02 3.09 3.54 3.82 2.96 3.46 3.55 3.46 3.09 2.91	0.0 23.8 	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305 1 1315 1 1405 1 1415 1 1505	TIME (MIN) -175 -255 -155 -155 1255 1855 195 2455 255 315 365	THC PPMC BK6800-1 0.91 34.30 33.80 33.50 33.20 32.80 31.80 30.90	THC FFMC BK6800-1 0.91 	T DEG C DORIC-1 21.6 28.7	T DEG C DORIC-1 21.6 30.1 34.5 37.2 38.7 38.0	MW/CM2 EPPLEY-2 	0.0 23.8 	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1205 1 1215 1 1305 1 1315 1 1405 1 1415 1 1505 1 1515	TIME (MIN) -175 -25 -15 -15 -125 135 185 195 245 255 315 365 375	THC PPMC BK6800-1 0.91 34.30 33.80 33.50 33.20 32.80 31.80 30.90	THC FFMC BK6800-1 0.91 	T DEG C DORIC-1 21.6 28.7 32.6 35.0 38.7 40.1 39.4 39.0	T DEG C DORIC-1 21.6 30.1 34.5 37.2 38.7	MW/CM2 EPPLEY-2 	0.0 23.8 18.0 13.5 11.2 9.6	CONDE 10E3/ CNC-1
TIME DY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1205 1 1215 1 1305 1 1315 1 1405 1 1505 1 1515 1 1605	TIME (MIN) -175 -255 -155 -125 1355 185 195 2455 255 3165 375 425	THC PPMC BK6800-1 0.91 34.30 33.80 33.50 33.20 32.80 31.80 30.90	THC FFMC BK6800-1 0.91 	T DEG C DORIC-1 21.6 28.7	T DEG C DORIC-1 21.6 30.1 34.5 37.2 38.7 38.0 38.3	MW/CM2 EPPLEY-2 	0.0 23.8 	CONDE 10E3/ CNC-1
TIME BY HR. 1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1205 1 1215 1 1305 1 1315 1 1405 1 1415 1 1505 1 1515	TIME (MIN) -175 -25 -15 -15 -25 135 185 195 245 255 315 365 375	THC PPMC BK6800-1 0.91 34.30 33.80 33.50 33.20 32.80 31.80 30.90	THC FFMC BK6800-1 0.91 	T DEG C DORIC-1 21.6 28.7 32.6 35.0 38.7 40.1 39.4 39.0	T DEG C DORIC-1 21.6 30.1 34.5 37.2 38.7 38.0	MW/CM2 EPPLEY-2 	0.0 23.8 18.0 13.5 11.2 9.6	CONDE 10E3/ CNC-1

SIDE 1 NO2-UNC PFM B-NOX-1	SIDE 2 NO2-UNC PPH B-NOX-1	SIDE 1 NOX-UNC PPM B-NOX-1	SIDE 2 NOX-UNC PPM B-NOX-1	SIDE 2 N-C4 PPM VA1400-7	SIBE 2 N-C4 PPM DMS-1	
0.001	0.001	0.007	0.007	an an m on #9 min	0.0011	
0.121		0.498				
	0.128		0.500	5.537		
	ange many some midd libry direk			5.464		
0.168		0.478				
	0.247	arties made with where booth over	0.492	5.443		
0.218		0.461				
	0.347		0.488	5.402		
0.284		0.445				
	0.422		0.475	5.37i		
0.341		0.419				
	0.437		0.453	5.298		
0.347		0.377				
	0.417		0.430	5.225		
0.312		0.325	0.407	5.163	6.120	
	0.390	A 050	0.403	2.103	0.120	
0.242	. 7EO	0.252	0.371	5.122		
	0.259		0+3/1			
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
UV RAD	CONDENS	CONDENS	#PART>.3	#PART>.3	#PART>.5	#PART>.5
MW/CM2	10E3/CC	10E3/CC	PART/CC	PART/CC	PART/CC	PART/CC
EPPLEY-2	CNC-143	CNC-143	CLIMET	CLIMET	CLIMET	CLIMET
			_	_		
	0.0	0.0	0.	0.	0.	0.
	23.8		٥.		٥.	
		0.0		0.		0.
2.02	18.0		0.	0.	0.	0.
3.09		0.0	0.	· · · · · · · · · · · · · · · · · · ·	0.	
3.64	13.5	0.0	0.	0.		0.
3.82		V.U	9.	V •	0.	~ · · · · · · · · · · · · · · · · · · ·
2.96	11.2		7 6	0.		0.
3.46	0 4	0.0	236.		14.	
3.55	9.6	0.0	200	1.		0,
3.46	7 + 4	V+V	401.		158.	
3.09	7 + 7	0.0		14.		0.
2,91 2,54	5.6	V + V	446.		279.	
2.41	J+0	0.0		18.		0.
1.73	4.0	and the state of t	465.	man new som till new tell	335.	
1.64		0.0		16.		٥.
w .		= : ::				

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		SIDF 1		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED					AER.V	AER∙V UM3/CC	AER PART
TIME	TIME	PART/CC	PART/CC	10-4 M-1			TSI-023	TSI-
DY HR.	(MIN)	CLIMET	CLIMET	MRI-388	MRI-388	TSI-023	151-025	191
1 605	-175	0.	٥.	0.2	0.2	2.	2 .	181
1 735	-85					~ ~ ~ ~		
1 835	-25	0.		0.2		1.	wind nine tree teat days parts	6.2
1 845	-15		0.		0.2		3 ⋅	
1 1005	65	0.		1.0	and the arm make arm airm	11.	and the rest term that enter	7.6
1 1015	75	AT 1 1400 TH AND MADE AND	٥.	***************************************	0.5	n.a. 1000 ball eta 1000 400	3.	
1 1105	125	0+		2.7		15.	-	6 • 4
1 1115	135		٥.		0.6		1.	
1 1205	185	0.		6.9		20.	and the track of the last of t	5.2
1 1215	195		0 :	yanga repang melan selam distri angar	0.0		1.	
1 1305	245	0.		16.0		21.		5.0
1 1315	255		0.	-	0.0		-0.	
1 1405	305	4.		28.0		29.		4.4
1 1415	315		0.		0.0	phys. Agent man with month from	2.	
1 1505	365	39.		44.0		27.		3.9
1 1515	375		0.	acce this the season while			٥.	
1 1605	425	84.		53,0		33.		3.2
1 1615	435	m m m m	0.		0.1		0.	
		0775	OTDE 4	CIDE 1	erne i	CIDE 1	SIDE 1	977
01 00K	~ 1 4 5 5 5 ° 5	SIDE 1			SIDE 1		SIDE 1	SID
CLOCK		RJ-4(B)	RJ-4(C)	RJ-4(D)	RJ-4(E)	RJ-4(F)	RJ-4(G)	C
TIME	TIME	RJ-4(B) PPMC	RJ-4(C) PPMC	RJ-4(D) PPMC	RJ-4(E) PPMC	RJ-4(F) PPMC	RJ-4(G) PPMC	(PF
		RJ-4(B)	RJ-4(C) PPMC	RJ-4(D)	RJ-4(E) PPMC	RJ-4(F)	RJ-4(G)	C
TIME	TIME	RJ-4(B) PPMC	RJ-4(C) PPMC VAR 3700	RJ-4(D) PPMC VAR 3700	RJ-4(E) PPMC VAR 3700	RJ-4(F) PPMC VAR 3700	RJ-4(G) PPMC VAR 3700	C PP BK68
TIME DY HR.	TIME (MIN) -175	RJ-4(B) PPMC VAR 3700	RJ-4(C) PPMC VAR 3700	RJ-4(D) PPMC VAR 3700	RJ-4(E) PPMC VAR 3700	RJ-4(F) PPMC VAR 3700	RJ-4(G) PPMC VAR 3700	C PP BK68 1.
TIME DY HR. 1 605	TIME (MIN) -175	RJ-4(B) PPMC VAR 3700	RJ-4(C) PPMC VAR 3700	RJ-4(D) PPMC VAR 3700	RJ-4(E) PPMC VAR 3700 4.187	RJ-4(F) PPMC VAR 3700 1.448 1.472	RJ-4(G) PPMC VAR 3700	C PF BK6E 1.
TIME DY HR. 1 605 1 735	TIME (MIN) -175 -85	RJ-4(B) PPMC VAR 3700	RJ-4(C) PPMC VAR 3700 1.576 1.649	RJ-4(D) PPMC VAR 3700 1.689 1.746	RJ-4(E) PPMC VAR 3700 4.187 4.350	RJ-4(F) PPMC VAR 3700 1.448 1.472	RJ-4(G) PPMC VAR 3700 2.344 2.463	Γ PF BK6E 1.
TIME DY HR. 1 605 1 735 1 835	TIME (MIN) -175 -85 -25 -15 -65	RJ-4(B) PPMC VAR 3700 1.104 1.109	RJ-4(C) PPMC VAR 3700 1.576 1.649 	RJ-4(D) PPMC VAR 3700 1.689 1.746 	RJ-4(E) PPMC VAR 3700 4.187 4.350 4.219	RJ-4(F) PPMC VAR 3700 1.448 1.472 1.438	RJ-4(G) PPMC VAR 3700 2.344 2.463 2.253	1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845	TIME (MIN) -175 -85 -25 -15 -65 -75	RJ-4(B) PPMC VAR 3700 1.104 1.109 1.103	RJ-4(C) PPMC VAR 3700 1.576 1.649 1.584	RJ-4(D) PPMC VAR 3700 1.689 1.746	RJ-4(E) PPMC VAR 3700 4.187 4.350 4.219	RJ-4(F) PPMC VAR 3700 1.448 1.472 1.438	RJ-4(G) PPMC VAR 3700 2.344 2.463 2.253	1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005	TIME (MIN) -175 -85 -25 -15 -65 -75	RJ-4(B) PPMC VAR 3700 1.104 1.109 1.103	RJ-4(C) PPMC VAR 3700 1.576 1.649 1.584 1.620	RJ-4(D) PPMC VAR 3700 1.689 1.746	RJ-4(E) PPMC VAR 3700 4.187 4.350 4.219 4.321	RJ-4(F) PPMC VAR 3700 1.448 1.472 1.438 1.465	RJ-4(G) PPMC VAR 3700 	1. 1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005 1 1015	TIME (MIN) -175 -85 -25 -15 -45 -75	RJ-4(B) PPMC VAR 3700 1.104 1.109 1.103	RJ-4(C) PPMC VAR 3700 1.576 1.649 1.584 1.620	RJ-4(D) PPMC VAR 3700 1.689 1.746 1.701	RJ-4(E) PPMC VAR 3700 4.187 4.350 4.219 4.321	RJ-4(F) PPMC VAR 3700 1.448 1.472 1.438 1.465	RJ-4(G) PPMC VAR 3700 	1. 1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005 1 1015 1 1105	TIME (MIN) -175 -85 -25 -15 -65 75 125 135 185	RJ-4(B) PPMC VAR 3700 1.104 1.109 1.103 1.107	RJ-4(C) PPMC VAR 3700 1.576 1.649 1.584 1.620	RJ-4(D) PPMC VAR 3700 1.689 1.746 1.701	RJ-4(E) PPMC VAR 3700 4.187 4.350 4.219 4.321	RJ-4(F) PPMC VAR 3700 1.448 1.472 1.438 1.465	RJ-4(G) PPMC VAR 3700 	1. 1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215	TIME (MIN) -175 -85 -25 -15 65 75 125 135 185 195	RJ-4(B) PPMC VAR 3700 1.104 1.109 1.103 1.107	RJ-4(C) PPMC VAR 3700 	RJ-4(D) PPMC VAR 3700 1.689 1.746 1.701 1.736	RJ-4(E) PPMC VAR 3700 4.187 4.350 4.219 4.321 4.206	RJ-4(F) PPMC VAR 3700 1.448 1.472 1.438 1.465 1.423	RJ-4(G) PPMC VAR 3700 	1. 1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305	TIME (MIN) -175 -85 -25 -15 -45 125 135 185 195 245	RJ-4(B) PPMC VAR 3700 1.104 1.109 1.107 1.094 1.086	RJ-4(C) PPMC VAR 3700 1.576 1.649 1.584 1.620	RJ-4(D) PPMC VAR 3700 1.689 1.746 1.701 1.736 1.700	RJ-4(E) PPMC VAR 3700 	RJ-4(F) PPMC VAR 3700 1.448 1.472 1.438 1.465 1.423	RJ-4(G) PPMC VAR 3700 	1. 1. 1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005 1 1015 1 1105 1 1205 1 1215 1 1305 1 1315	TIME (MIN) -175 -85 -25 -15 -45 125 135 185 195 245 255	RJ-4(B) PPMC VAR 3700 1.104 1.109 1.107 1.094 	RJ-4(C) PPMC VAR 3700 1.576 1.649 1.584 1.620 1.593 	RJ-4(D) PPMC VAR 3700 1.689 1.746 1.701 1.736 1.700	RJ-4(E) PPMC VAR 3700 	RJ-4(F) PPMC VAR 3700 1.448 1.472 1.438 1.465 1.423 	RJ-4(G) PPMC VAR 3700 	1. 1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005 1 1015 1 1105 1 1205 1 1215 1 1305 1 1315 1 1405	TIME (MIN) -175 -85 -25 -15 -45 125 135 185 195 245 255 305	RJ-4(B) PPMC VAR 3700 	RJ-4(C) PPMC VAR 3700 	RJ-4(D) PPMC VAR 3700 	RJ-4(E) PPMC VAR 3700 4.187 4.350 4.219 4.219 4.204 4.203 3.859	RJ-4(F) PPMC VAR 3700 	RJ-4(G) PPMC VAR 3700 	1. 1. 1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215 1 1305 1 1315 1 1405 1 1415	TIME (MIN) -175 -85 -25 -15 65 75 125 135 185 195 245 255 305 315	RJ-4(B) PPMC VAR 3700 	RJ-4(C) PPMC VAR 3700 	RJ-4(D) PPMC VAR 3700 	RJ-4(E) PPMC VAR 3700 	RJ-4(F) PPMC VAR 3700 	RJ-4(G) PPMC VAR 3700 	1. 1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005 1 1105 1 1105 1 1205 1 1215 1 1305 1 1315 1 1405 1 1415 1 1505	TIME (MIN) -175 -85 -25 -15 -65 75 125 135 185 195 245 255 305 315	RJ-4(B) PPMC VAR 3700 1.104 1.109 1.103 	RJ-4(C) PPMC VAR 3700 	RJ-4(D) PPMC VAR 3700 1.689 1.746 1.701 	RJ-4(E) PPMC VAR 3700 	RJ-4(F) PPMC VAR 3700 	RJ-4(G) PPMC VAR 3700 	1. 1. 1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005 1 1105 1 1105 1 1205 1 1215 1 1305 1 1315 1 1405 1 1415 1 1505 1 1515	TIME (MIN) -175 -85 -25 -15 -65 75 125 135 185 195 245 255 305 315 365 375	RJ-4(B) PPMC VAR 3700 1.104 1.109 1.103 	RJ-4(C) PPMC VAR 3700 	RJ-4(D) PPMC VAR 3700 1.689 1.746 1.701 	RJ-4(E) PPMC VAR 3700 	RJ-4(F) PPMC VAR 3700 	RJ-4(G) PPMC VAR 3700 	1. 1. 1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005 1 1015 1 1105 1 1215 1 1205 1 1215 1 1305 1 1415 1 1405 1 1515 1 1605	TIME (MIN) -175 -85 -25 -15 -65 75 125 135 185 195 245 255 305 315 365 375 425	RJ-4(B) PPMC VAR 3700 	RJ-4(C) PPMC VAR 3700 	RJ-4(D) PPMC VAR 3700 1.689 1.746 1.701 1.736 1.700 1.717 1.581 1.611	RJ-4(E) PPMC VAR 3700 	RJ-4(F) PPMC VAR 3700 1.448 1.472 1.438 1.465 1.423 1.313 1.358 	RJ-4(G) PPMC VAR 3700 	1. 1. 1. 1.
TIME DY HR. 1 605 1 735 1 835 1 845 1 1005 1 1105 1 1105 1 1215 1 1205 1 1315 1 1405 1 1415 1 1505 1 1515	TIME (MIN) -175 -85 -25 -15 -65 75 125 135 185 195 245 255 305 315 365 375	RJ-4(B) PPMC VAR 3700 1.104 1.109 1.103 	RJ-4(C) PPMC VAR 3700 	RJ-4(D) PPMC VAR 3700 1.689 1.746 1.701 	RJ-4(E) PPMC VAR 3700 	RJ-4(F) PPMC VAR 3700 	RJ-4(G) PPMC VAR 3700 	1. 1. 1. 1.

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	SIDE 2 AER.V UM3/CC 1SI-023	SIDE 1 AER.N PART/CC TSI-023	SIDE 2 AER·N PART/CC TSI-023	SIDE 1 AER.S UM2/CC TSI-023	SIDE 2 AER·S UM2/CC TSI-023	SIDE 1 RJ-4(A) PPMC VAR 3700
2.	2.	1812.	1812.	35.	35.	
				*** *** *** ***		1.481
1.		6.2E 04		156.		1.498
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11.		7.6E 04		744.		1.460
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ming game with even from	1.	m ==	1398.		11.	
20.		5.2E 04		1124.		1.454
	1.		259.		13.	
21.		5.0E 04		1205.		1.448
29.	-0.		-653.	1309.	-11.	1.354
£7+	2.	4.4E 04	-331.	1307+	20.	1+354
27.	<u> </u>	3.9E 04	_0014	1290.	20+	1,372
£/+	0.	3+75 04	220.	1270+	13.	1+3/2
33.		3.2E 04	~ ~ ~ ·	1260.		1,262
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			27.01			
SIDE 1	SIDE 1	SIDE 1	SIDE 2	SIDE 1	SIDE 2	
RJ-4(F)					PAN	
PFMC	PPMC		PPM			
VAR 3700	VAR 3700	BK6800-1	BK6800-1	ECD-3	ECD-3	
		1.60	1.60	0.000	0.000	
1.448	2.344	1.00		W =		
1.47?	2.463	1.54		0.000		
			1.65		0.000	
1.438	2.253	1.63		0.000		
			1,60		0.008	
1.465	2.138	1.66		0.001		
			1.64		0.017	
1.423	2.263	1.64		0.002		
			1.61		0.027	
1,425	2.283	1.60		0.002		
			1.66		0.036	
1.313	1.963	1.67		0.004		
4 750	2 222	4 77	1 + 69		0.053	
1.358	2.008	1.73	4	0.009	^ ^?7	
1 274	1 450	1 74	1.73	A A17	0.073	
1,234	1.650	1.74	1.70	0.013	0.094	
			1+/0		0+074	

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AFF- 98 RJ-4 VS N-BUTANE 1981, JULY 10

1981, J	ULY 10							
CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 HCHO PFM CA	SIDE 2 HCHO PPM CA	SIDE 1 ACETALD PPM 10'C-600	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 PART.024 PART/CC TSI-023	SIDE 1 PART.042 PART/CC TSI-023	SID PART PART TSI-
וע חוג	(HIM)	CH	LH	10 6-800	151-025	151-025	151-023	151-
1 605	-175		***	0.0028	1336.	1336.	174.	17
1 735	-85 50		0.006	0.0223				
1 810 1 835	-50 -25	0.006	0.000		5.5E 04		6003.	
			***************************************		5.5E V4	1169.	0003+	-69
1 845 1 1005	-15 65				1.4E 04	1107+	3.8E 04	~ 07
1 1005	65 75				1.45 04	501.	3+05 04	43
1 1105		No. 100 May 100 May 100			2004.	201.	2.0E 04	
	125				2004.	1503.	2.06 04	
1 1115	135					1503+		
1 1200	180	0.019	0.015				5481.	
1 1205	185				-4342.		2481+	
1 1215	195					0.	-435.	
1 1305	245				-835.		-435.	-43
1 1315	255				-1002.	0.	-174.	-43
1 1405	305				-1002+	-1002.	-1/4.	60
1 1415	315				167.	-1002+	0.	
1 1505	365				16/+		V+	-26
1 1515	375			0.0154		0.	0.	-20
1 1605	425			0.0154	0.		V +	
1 1610	430	0.040	0.038					
1 1615	435	9600 1000 1000 0100 0000 1001				٥.		
		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	
CLOCK	ELAPSED	PART + 237	PART.237	PART.422	PART - 422	PART.750	PART.750	
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	
1 605	- 175	86.	86.	7.	7.	4.	4.	
1 835	-25	-25.		13.		0.		
1 845	-15		-98.		27.	· · · · · · · · · · · · · · · · · · ·	11.	
t 1005	65	86.	/ U +	7,	£/,	11.		
1 1015	75		-25.		-20.		18.	
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DE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
1.024	PART - 024	PART.042	PART.042	PART+075	PART.075	PART.133	PART.133
T/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
7./	4777	1 77 A	1 7 A	4 "2 "9	177	20	30
36.	1336.	174.	174.	133.	133.	72.	72.
5E 04		6003.		799.		145.	No. 200 200 200 200 200
	1169.		-696.	7 7 7 4	-222.	173+	193.
4E 04		3.8E 04		2.3E 04		1085.	1731
	501.		435.		-178.		289.
04.		2.0E 04		3.9E 04		2169.	
	1503.		0.		-133.		0.
42.		5481.		4.6E 04		4217.	
	0.		٥.		222.		24.
85.		-435.	Ma ma ma ma an an	4.4E 04		6796,	
	0.		-435.		-133.		-72.
<b>Q2</b> .		-174.	-	3,3E 04		1.2E 04	
	-1002.	-	609.		O .		48.
67,		٥.		2.4E 04		1.4E 04	
<b></b>	0.		-261.		444.	***************************************	0.
0.		0.		1.7E 04		1.5E 04	
F	spec and days gave rails 1900						
	٥.	adds done took plant done comp	0,	male and male and the state	0 +	Title sails sails said affile dark	193.
DE 2	SIDE 1	SIDE 2					
,422	PART.750	PART.750					
/CC	PART/CC	PART/CC					
-023	TSI-023	TSI-023					
7.	4.	4.					
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AFF- 99
PROPENE-NOX CONDITIONING
1981, JULY 13

0820: START FILL. WET; 6.0; DRY: 0.0

0932: INJECT 11.0 ML NO2

0934: INJECT 12.0 ML NO

0936: INJECT 22.5 ML PROPENE

1000: UNCOVER BAG (T=0)

T=0 AT 1000 PST

BAG NO. 22 USED

ID INST. AVERAGE S.DEV UNITS

VALUE

T DORIC-1 37.3 6.6 DEG C

INSTRUMENTS USED

ID LABEL DESCRIPTION

1790 D-1790 DASIBI 1790 OZONE MONITOR

4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; \$N300038-2

1800 DORIC-1 DOPIC TEMPERATURE INDICATOR, SN 61479

CLOCK	ELAPSED	OZONE	ИО	NO2-UNC	NOX-UNC	T
TIME	TIME	PPM	PPM	PPM	PFM	DEG C
DY HR.	(MIN)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	DORIC-1
1 950	-10	0.000	0,255	0.123	0.400	32.7
1 1400	240	0.700	0.083	0.201	0.300	42.0

----- NO DATA TAKEN

482

AFF-100 RJ4, VARIABLE FUEL 1981 JULY 14,15

DAY 1 (JULY 14)

0445: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 14.5 DRY BULB: 22.1 R.H.: 43%

0556: END FILL.

0622: INJECTED 18.0 ML. NO2

0624: INJECTED 5.0 ML. NO

0628: MIX BAG, DIVIDE BAG.

0639: INJECTED 624 MICROLITERS RJ-4 INTO SIDE A. INJECTED 312 MICROLITERS RJ-4 INTO SIDE B. BOTH THESE OPERATIONS AT 250 DEGREES C

FOR 30 MIN. INJECTED SIMULTANEOUSLY.

0714: MIX SIDE A AND SIDE B.

0900: UNCOVER BAG (T=0).

0905: WEATHER: SUNNY AND WARM.

1515: HIGH CLOUDS FORMED "1000 PST AND IT HAS BEEN SOMEWHAT OVERCAST ALL DAY.

1620: END SAMPLING DAY 1

DAY 2 (JULY 15)

0900: UNCOVER BAG DAY 2.

0905: WEATHER: VERY CLOUDY, SOME LIGHT SPRINKLES.

1520: SAMPLING ENDED, RUN OVER.

BK6800-1 36.20

NOTE: WEATHER REMAINED CLOUDY ALL DAY, BUT NO RAIN.

RESULTS	DAY 1	DAY 2
ages from ages and about Filler Pring		
AVG.T(DEG.C)	38(+-2)	32(+-4)
AVG.UV(MW/CM2)	2.1(+-0.8)	1.4(+-0.7)

T=0 AT 900 PST

THC

IB	INST.	AVERAGE VALUE	S.DEV	UNITS	
T	DORIC-1	33.4	5.7	DEG C	SIDE 1
T	DORIC-1	33.4	5.6	DEG C	SIDE 2
UV RAD	EPPLEY-2	1.74	0.82	MW/CM2	
ID	INST.	INITIAL CONC.	UNITS		
מא	B-NOX-1	0.101	PPM	SIDE 1	
ИO	B-NOX-1	0.102	PPM	SIDE 2	
NO2-UNC	B-NOX-1	0.372	PPM	SIDE 1	
NO2-UNC	B-NOX-1	0.372	PPM	SIDE 2	
THC	BK6800-1	63.30	PPMC	SIDE 1	

PPMC

SIDE 2

AFF-100 RJ4, VARIABLE FUEL 1981 JULY 14,15

## INSTRUMENTS USED

SAMPLING RATE (ML/MIN)

ID	LABEL	DESCRIPTION	(ML/MIN)
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850	BK6800-1	BECKMAN CD, HC ANALYZER SN:100015D	
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 GC; ECD	
4131	EPFLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	
4300	TSI-023	TSI ELECTRICAL AFROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OFTICAL PART. CTR; SN:76-148	
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN143	5
2750	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FII	)
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2100	PN-1	RM-121 POROPAK-N GC; FID	
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS	

1       835       -25       0.000        0.101        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.372	CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 OZONE PPM D-1790	SIDE 2 OZONE PPM D-1790	SIDE 1 NO PPM B-NOX-1	SIDE 2 NO PPM B-NOY-1	SIDE 1 NO2-UNC PPM B-NOX-1	SIDE 2 NO2-UNC PPM B-NOX-1	SID NOX- PP B-NO
1       845       -15        0.000        0.102        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.372        0.377									Q.
1 1005       65       0.057        0.058        0.370        0.379         1 1015       75        0.050        0.037        0.379        0.379        0.370        0.370        0.370        0.370        0.370        0.370        0.370        0.370        0.370        0.370        0.370        0.370									
1 1015       75        0.050        0.379        0.379        0.379        0.379        0.370        0.370        0.370        0.370        0.370        0.370        0.370        0.370									0.
1 1105       125       0.130        0.030        0.353        0.370        0.370        0.370        0.370        0.370        0.370        0.370        0.370        0.370        0.370        0.370						0.059		0.379	
1 1115       135        0.102        0.037        0.370        0.370        0.279        0.       0.025        0.341        0.       0.025        0.341        0.       0.025        0.341        0.       0.115									e.
1 1205       185       0.269        0.020        0.279        0.341        0.115        0.341        0.341        0.115        0.341        0.115        0.279        0.115        0.279        0.115        0.279        0.115        0.279						0.037		0.370	
1 1215       195        0.177        0.025        0.341          1 1305       245       0.466        0.020        0.115        0.         1 1315       255        0.286        0.021        0.279          1 1405       305       0.482        0.019        0.039        0.         1 1415       315        0.392        0.018        0.161          1 1505       365       0.459        0.019        0.028					0.020		0.279		0.
1 1305       245       0.466        0.020        0.115        0.279        0.279        0.279        0.279        0.279        0.279        0.279        0.279        0.279        0.279        0.279        0.279        0.279        0.161        0.161        0.161        0.161        0.161        0.161        0.161						0.025		0.341	
1 1315       255        0.286        0.021        0.279        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161        0.161			0.444		0.020	==	0.115		0.
1 1405       305       0.482        0.019        0.039        0.161         1 1415       315        0.392        0.018        0.161         1 1505       365       0.459        0.019        0.028        0.         1 1515       375        0.449        0.019        0.078         1 1605       425       0.432        0.015        0.023        0.         1 1615       435        0.443        0.018        0.041         2 835       1415       0.326        0.018        0.015         2 845       1425        0.345        0.009        0.019         2 1005       1505       0.308        0.010        0.019        0.019         2 1015       1515        0.327        0.012        0.019        0.019				0.286		0.021		0.279	
1 1415       315        0.392        0.018        0.161        0.161        0.161        0.161        0.161        0.028        0.078        0.019        0.078        0.078        0.019        0.078        0.019        0.023        0.015			0.482		0.019		0.039		0.
1 1505       365       0.459        0.019        0.028        0.078         1 1515       375        0.449        0.019        0.078          1 1605       425       0.432        0.015        0.023        0.041         1 1615       435        0.443        0.018        0.041         2 835       1415       0.326        0.010        0.015        0.041         2 845       1425        0.345        0.009        0.019        0.019				0.392		0.018		0.161	
1 1515       375        0.449        0.019        0.078        0.078        0.015        0.023        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.041			0.459		0.019		0.028		0.
1 1605       425       0.432        0.015        0.023        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.041        0.015        0.041        0.015        0.019        0.019        0.019        0.019        0.019				0.449		0.019		0.078	
1 1615       435        0.443        0.018        0.041          2 835       1415       0.326        0.010        0.015        0.019         2 845       1425        0.345        0.009        0.019          2 1005       1505       0.308        0.010        0.019			0.432		0.015		0.023		0.
2       845       1425        0.345        0.009        0.019        0.019        0.019        0.019        0.019				0.443		0.018		0.041	
2 1005       1505       0.308        0.010        0.019        0.019         2 1015       1515        0.327        0.012        0.019          2 1105       1565       0.293        0.010        0.019        0.025         2 1115       1575        0.311        0.009        0.025          2 1205       1625       0.277        0.005        0.020	2 835	1415	0.326		0.010		0.015		0.
2 1015       1515        0.327        0.012        0.019          2 1105       1565       0.293        0.010        0.019        0.025         2 1115       1575        0.311        0.009        0.025          2 1205       1625       0.277        0.005        0.020        0.025         2 1215       1635        0.300        0.007        0.021          2 1305       1685       0.262        0.009        0.021          2 1315       1695        0.287        0.005        0.027          2 1405       1745       0.246        0.009        0.029        0.029          2 1505       1805       0.234        0.009        0.010        0.029	2 845	1425		0.345		0.009			
2 1105       1565       0.293        0.010        0.019        0.025         2 1115       1575        0.311        0.009        0.025          2 1205       1625       0.277        0.005        0.020        0.221         2 1215       1635        0.300        0.007        0.021          2 1305       1685       0.262        0.009        0.021          2 1315       1695        0.287        0.005        0.027          2 1405       1745       0.246        0.009        0.029        0.029          2 1505       1805       0.234        0.009        0.029        0.029	2 1005	1505	0.308		0.010		0.019		
2 1103       1503       0.273       0.311       0.009       0.009       0.025       0.025       0.025       0.025       0.025       0.025       0.025       0.025       0.025       0.025       0.020       0.020       0.020       0.020       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.021       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022       0.022 <td< td=""><td>2 1015</td><td>1515</td><td></td><td>0.327</td><td></td><td>0.012</td><td></td><td>0.019</td><td></td></td<>	2 1015	1515		0.327		0.012		0.019	
2 1205     1625     0.277      0.005      0.020      0.20       2 1215     1635      0.300      0.007      0.021        2 1305     1685     0.262      0.009      0.021      0.021       2 1315     1695      0.287      0.005      0.027        2 1405     1745     0.246      0.009      0.029      0.029       2 1415     1755      0.270      0.010      0.029        2 1505     1805     0.234      0.009      0.029		1565	0.293		0.010		0.019		
2 1215     1635      0.300      0.007      0.021        2 1305     1685     0.262      0.009      0.021      0.021       2 1315     1695      0.287      0.005      0.027        2 1405     1745     0.246      0.009      0.029      0.029       2 1415     1755      0.270      0.010      0.029        2 1505     1805     0.234      0.009      0.029      0.029	2 1115	1575		0.311		0.009		0.025	
2 1215     1635      0.300      0.007      0.021        2 1305     1685     0.262      0.009      0.021      0.21       2 1315     1695      0.287      0.005      0.027        2 1405     1745     0.246      0.009      0.029      0.029       2 1415     1755      0.270      0.010      0.029        2 1505     1805     0.234      0.009      0.029	2 1205	1625	0.277		0.005		0.020		
2 1305     1685     0.262      0.009      0.021      0.21       2 1315     1695      0.287      0.005      0.027        2 1405     1745     0.246      0.009      0.029      0.029       2 1415     1755      0.270      0.010      0.029        2 1505     1805     0.234      0.009      0.029      0.029		1635		0.300	·	0.007		0.021	
2 1405 1745 0.246 0.009 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029	2 1305		0.262		0.009		0.021		
2 1415 1755 0.270 0.010 0.029 2 1505 1805 0.234 0.009 0.029	2 1315	1695		0.287		0.005			
2 1505 1805 0.234 0.009 0.029 0.	2 1405	1745	0.246		0.009		0.029		
2 1303 1003 74254	2 1415	1755		0.270					
2 1515 1815 0.259 0.010 0.030	2 1505	1805	0.234		0.009				
	2 1515	1815		0.259	***************************************	0.010		0.030	

2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
þ	NO2-UNC	N02-UNC	NOX-UNC	NOX-UNC	THC	THC
h	PPM	PPM	PPM	PPM	PPMC	PPMC
X-1	B-NOX-1	B-N0X-1	B-NOX-1	B-NOX-1	BK6800-1	BK6800-1
015	0.006	0.006	0.016	0.016	0.08	0.08
	0.372		0.491		63.30	
102	,	0.372		0.495		36.20
·	0.370		0.439		62.10	
)59		0.379		0.450		33.90
	0.353		0.388		61.50	
37		0.370		0.417		34.30
	0.279		0.291		59.40	
25		0.341		0.360		32,8ა
	0.115		0.131		57.20	
21		0.279		0.300		32.10
	0.039		0.048	***	55.40	
218	**** **** * * *** ****	0.161		0.179		30.20
	0.028	ART 2400 WAS 1800 FOT THE	0.040		55.00	
19		0.078		0.089		28.90
	0.023		0.038		56.20	
18		0.041		0.052		28.20
	0.015		0.021		54.80	
09	-	0.019	_~	0.023		27.80
<u></u>	0.019		0.025		54.20	
012		0.019	take 1994 from 66th sters such	0.026		27.70
	0.019		0.025		54.40	
009	pay	0.025		0.030		28.00
	0.020		0.027	anus sales assa otas serie tuer	54.60	
07		0.021		0.028		27.90
	0.021		0.029		54.30	
05		0.027		0.030		27.50
	0.029		0.031		54.50	
10		0.029		0.031		27.80
	0.029		0.031		54.10	
10		0.030		0.032		27.80

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AFF-100 RJ4, VARIABLE FUEL 1981 JULY 14,15

		SIDE 1	SIDE 2		SIDE 1	SIDE 2	SIDE 1	SII
CLOCK	ELAPSED		T	UV RAD	CONDENS	CONDENS	#PART>.3	#PAF
TIME	TIME	DEG C	DEG C	MW/CM2	10E3/CC	10E3/CC	PART/CC	PART
DY HR.	(MIN)	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC-143	CLIMET	CLl
1 605	-175	21.9	21.9		0.0	0.0	0.	
1 835	-25	31.0			13.0		0.	-
1 845	-15		32.3			20.0		
1 1005	65	35.3		1.91	13.0		3.	
1 1015	フラ	~~~~~~	36.0	1.91		17.6		
1 1105	125	38.0		3.09	11.2		312.	
1 1115	135		38.6	3.19		15.0		12
1 1205	185	39.6		2.68	9.0		456.	
1 1215	195		39.9	3.19		12.2		37
1 1305	245	41.4		2.63	7+9	***************	486.	
1 1315	255	cular halfs over this place when	40.2	2.14		10.0		45
1 1405	305	37.2		1.41	6.0	**********************	494.	
1 1415	315		37.1	1.68	****	8.1		47
1 1505	365	36.9		1.46	4.7		490.	
1 1515	375		36.2	1.14		6.5		48
1 1605	425	36.6		1.32	3.6		483.	
1 1615	435		37.1	1.18	2000 Balo o arto 1000 2010	5.0		48
2 835	1415	24.9			0.0		273.	
2 845	1425		24.4			0.2		33
2 1005	1505	27.1		0.72	0.1		234.	
2 1015	1515		27.1	0.68	ment space man beam beam beam	0.1		30
2 1105	1565	28.4	table date agin aims ones agent	0.89	0.2		214.	
2 1115	1575		29.0	0.89		0.0		27
2 1205	1625	29.2		0.77	0.2		200.	
2 1215	1635		29.0	0.72		0.0		23
2 1305	1685	32.4		1.73	0.2		223.	
2 1315	1695		33.1	1.96		0.0		20
2 1405	1745	38.2		3.19	0 • 4		148.	
2 1415	1755		34.8	2.00		0.0		17
2 1505	1805	35.8		1.50	0.4		190.	
2 1515	1815		35.7	1.28		0.0		14

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DE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
DENS	CONDENS	#PART>.3	#PART>.3	#PART>.5	#PART>.5	#PART>1	#PART>1
3/00	10E3/CC	PART/CC	PART/CC	PART/CC	PART/CC CLIMET	PART/CC	PART/CC CLIMET
-143	CNC-143	CLIMET	CLIMET	CLIMET	CLIME	CLIMET	CLIME
0.0	0.0	0.	0.	0.	0.	0.	0.
3.0		٥,		0.		0.	
	20.0		0.		0.		0.
3.0		3.		0.		0.	
	17.6		0.		0.		0.
1.2		312.		45.		٥.	
	15.0	-	125.		1.		0.
7.0		456.		290.		45.	
	12.2		371.		93.		٥.
7.9		486.		404.		176.	
	10.0		452.		271.		31.
.0		494.		416.		192.	
	8.1		476.		369.		123.
1.7	eggs appel bline garte solik adder	490.		400.		161.	
	6.5		483.		395.		161.
3.6		483.		378.		129.	
	5.0		483.	parts taken apper paper from adrit	390.		151.
0.0		273.		21.		٥.	
	0.2		337.		80.		1.
) • 1		234.		35.		٥.	
	0.1		302.		65.		1.
1.2		214.		61.	***************************************	0.	
	0 0		270.		60.		1.
).2		200.		53.		1.	
	0.0		237.		62.		1.
),2		223.		40.		1.	
	0.0		203.		82.		1.
. 4		148.		37.		1.	
	0.0		171.		152.		5.
) , 4		190.		49.		2.	

141.

136.

AFF-100 RJ4, VARIABLE FUEL 1981 JULY 14,15

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE
CLOCK	ELAPSED	BSCAT	BSCAT	AER.V	AER.V	AER.N	AER.N	AER
TIME	TIME	10-4 M-1	10-4 M-1	UM3/CC	UM3/CC	PART/CC	PART/CC	UM2
DY HR.	(MIN)	MRI-388	MRI-388	TS1-023	TSI-023	TSI-023	TSI-023	TSI-
D1 111X+	(11417)	11KI 000	1111 JOG	,01 020				
1 605	-175	0.0	0.0	1.	1.	-2705.	-2705.	{
1 725	~95							
i 835	-25	0.0		5.		3.7E 04		120
1 845	-15		0.0		4.		6.8E 04	
1 1005	65	6.2		19.		6.3E 04		124
1 1015	75		5.0	mind when we've store party page	16.		7.2E 04	
1 1105	125	25.0		31.		6.9E 04		165
1 1115	135		15.0		25.		9.1E 04	
1 1205	185	58.0		31.		7.2E 04		190
1 1215	195		30.0		26+		6.9E 04	
1 1305	245	96.0		46.		7.5E 04		227
1 1315	255		52.0		39.		7.1E 04	
1 1405	305	98.0		52.		6.0E 04		221
1 1415	315		78.0		48.		5.6E 04	
1 1505	365	82.0		38.		5.3E 04		173
1 1515	375		87.0		32.		6.8E 04	
1 1605	425	68.0		38.		3.6E 04		146
1 1615	435		80.0		34.		5.6E 04	
	.50							
2 710	1330							
2 835	1415	2.0		7.		352.		8
2 845	1425		5.8	construction and after print time	7.		3711.	
2 1005	1505	2.1		5.		574.		6
2 1015	1515		5.5		4.		2216.	
2 1105	1565	1.1		3.		499.		5
2 1115	1575		5.1		4.	AR	1229.	
2 1205	1625	1.8		5.		1389.		7
2 1215	1635	nine and one pire only offer	4.8		2.		1800.	
2 1305	1685	1.3		-478.		-424.		-381
2 1315	1695		3.5		3.		1878.	
2 1405	1745	2.5	-	-1.		3118.		4
2 1415	1755	***************************************	3.0		-519.		-802.	
2 1505	1805	3.8		4.		3641.		12
2 1515	1815		3.0		2.		2273.	

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Party Chief

DE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
R.N	AER.S	AER.S	RJ-4(A)	RJ-4(A)
7/CC	UM2/00	UM2/CC	PPMC	PPMC
-023	TSI-023	TSI-023	VAR 3700	VAR 3700
05.	8.	8.	representation with the control width	
				1.687
	126.		3,230	
8E 04		267.		~~~~~
	1244.		3.175	
2E 04		1158.		
	1655.			
1E 04		1430.		1.686
	1903.		2,876	
9E 04		1551.		
	2272+	~~~~~		
1E 04		1780.		1.642
	2211.			
6E 04		2173.		
	1737.		2,796	
8E 04		1797.		
	1468.			
6E 04		1557.		1.589
				1.348
	85.			
11.	ride main same water room miles	141.		
	67.		2,759	
16.		114.		
	54.			
29.		105.		1.401
	72.			
00.		89.		1,479
	-3818.	MAIS PARK SOUR PAIR STORE STORE		
78.		74.		agent digner safting stripe years
	40.		2.661	
02.		-4135.		
	120.			
73.	MPT DIST SING SQUE DODG 0.50	81.		1.382
7				

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AFF-100 RJ4, VARIABLE FUEL 1981 JULY 14,15

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SI
CLOCK	ELAPSED	RJ-4(R)	RJ-4(B)	RJ-4(C)	RJ-4(C)	RJ-4(D)	RJ-4(D)	RJ-
TIME	TIME	PPMC	PPMC	PPMC	PPMC	PPMC	PPMC	P
DY HR.	(MIN)	VAR 3700	VAR 3700	<b>YAR 3700</b>	VAR 3700	VAR 3700	VAR 3700	VAR
1 725	-95		1.231		1.703		2.562	A-F 1776
1 835	-25	2.392		3.464	***********	3.914		9
1 1005	65	2.369		3.503		3.864		8
i 1115	135		1.275		1.829		1.998	
1 1205	185	2.152		3.144	100x 170x quán 100x 1x40 pints	3.323		8
1 1315	255		1,247		1.875		1.949	-
1 1505	365	2,143		3.084		3.196		7
1 1615	435		1.228		1.784	page gade took had some man	1.837	
2 710	1330		1.181	*** *** *** ***	2.013		1.701	
2 1005	1505	2.091		3.057	~~~~~	3.140		7
2 1115	1575		1.067		1.575		1.603	
2 1215	1635		1.161		1.681		1.695	
2 1405	1745	2.030		2,932		3.005		7
2 1515	1815		1.076		1.535	****	1.574	

----- NO DATA TAKEN

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2	SIDE 1 RJ-4(P)	SIDE 2 RJ-4(D)	SIDE 1 RJ-4(E)	SIDE 2 RJ-4(E)	SIDE 1 RJ-4(F)	SIDE 2 RJ-4(F)
,	PPKC	PPMC	PPMC	PPMC	PPMC	PPMC
700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700
3		2.562		4.351		1.572
	3.914		9.087		3.078	
•	3.864		8,975		3.044	
9		1.998		4,827		1.653
	3.323		8.098		2,789	
5		1.949		4.807		1.701
-	3.196	pedia sirup pedia pena pada sama	7.546		2.601	
4		1.837	man and man and man was	4.378		1.573
3	nggi Mills role spin spin say	1.701	****	3.785		1.311
	3.140		7.514		2.481	
5		1.603	Plant Street States States States Scient	3,729		1.217
1		1.695	NAME AND DESCRIPTION OF STREET	3.996		1.314
_	3.005	~	7.168		2.360	
5		1.574	***************************************	3.678		1.229

AFF-100 RJ4, VARIABLE FUEL 1981 JULY 14:15

CLOCK TIME BY HR.	ELAFSED TIME (MIN)	SIDE 1 RJ-4(G) PPMC VAR 3700	SIDE 2 RJ-4(G) PPMC VAR 3700	SIDE 1 CO FPM BK6800-1	SIDE 2 CO PPM BK6800-1	SIDE 1 PAN PPM ECP-3	SIDE 2 PAN PPM ECD-3	SIT HC PP C
1 605	-175			1.66	1.66	0.001	0.001	THE WAS SHOT
1 725	-95	care and with him two ways	2.479					
1 811	-49				***************************************		sages taken artist come from andre	Q . :
1 835	-25	3.825		1.78	time dear mor clar- use tries	0.001		- m u-
1 845	-15	come party afficial banks and come.		Chief State State of the State State	1.82		0.000	
1 1005	65	3.770		<b>1.80</b>		0.003		
i 1015	75				1.81		0.003	-
1 1105	125		~ - ~	1.69	sale date of 5 few sale PTE	0.005		
1 1115	135		2.774		1.85		0.004	
1 1200	180		-		Miles with T-14 maps page 4-mg			٥.
1 1205	185	2,780	** *** *** *** *** ***	1.82	ander than their telescopes differ	0.006		****
1 1215	195				1.83		0.005	
1 1305	245	and start still ends title vills	willie wider plate sorul black. 4.000	1.81	mate same rate than and Mf	0.011		
1 1315	255	and upon soon order soon solds	2.364	the teat was over the sur	1.86		0.009	
1 1405	305		THEN SHEET IS N ASSESS FOR A PARTY.	1.87	The later 1990 along 1990 1990	0.013		
1 1415	315	and the other year other sens			1.89		0.011	
1 1505	365	3.492	page gard and the man tax	1.84		0.008	100 Mari 110 100 AND MARI	
1 1515	375	Long pay perio gate data gray			1.92		0.013	-
1 1605	425		and your old agen been made	1.90	676 said the said said 1886	0.006		~~~.
1 1610	430			AM 100 100 W -70 NO			0.044	0+1
1 1615	435		1.838		1.93		0.014	
2 710	1330		1.843		Adda same 610s usam gap finds		and best solve bear man was	
2 810	1390	ages man with your last began						0.0
2 835	1415	ame are the tast that from		1.87		0.000		
2 845	1425	time and man are the sec			1.95		0.000	
2 1005	1505	2.694		1.94		0.001		
2 1015	1515				1.98		0.002	
2 1105	1565			2.01		0.002		
2 1115	1575	age's year ages over ween ween	1.952	had your abil man upon the	1.97		0.003	-
2 1200	1620				book dulm own) tops were Jebe			0 +1
2 1205	1625	along only agent direct than the tentor		1.96		0.003		
2 1215	1635	page gay gater dups after 6"4s	1.890		1.97		0.004	town off's Area 4
2 1305	1685			1.98			A 647	
2 1315	1695				1.99		0.003	
2 1405	1745	3.405	ASSE SUPER SPINS SUBSI SEEM SECU	1.87	* **	0.005	A AAF	****
2 1415	1755			~ ~ ^ ^	1.88	A AAE	0.005	
2 1505	1805	ness are not been this see.	afet auch 1966 uttr som som	2.00	****	0.005	NAME AND ADDRESS OF THE PARTY AND ADDRESS OF THE AD	
2 1510	1810	econ same show from same util	/ 676	degle freje også dys sett terr	2 02			0.(
2 1515	1815		1.578		2.02		0.005	

SIDE 1 FAN PPM ECD-3	SIDE 2 PAN PPM ECD-3	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 PART.024 PART/CC TSI-023
ECT-2	E00"3	On.	Q.F.	131 010	101 020
0.001	0.001			-2338.	-2338.
		age your spee state also take			
		0.040	0.004	7 45 04	
0.001				3.4E 04	5.1E 04
0.003	0.000			-167.	3+1E V4
0.003	0.903			10/+	0.
0.005	V+9V3			1002.	
0.003	0.004	an elec ages with with entit			2.3E 04
such same stars class than		0.027	0.010		
0.006			~~~	501.	and then sale new bell been
	0.005				-1336.
0.011				7014.	
	0.009			~- ~- ~- ~~ ~~ ~~	2672.
0.013				2004.	
	0.011				501.
0.008				7515.	
	0.013				4676.
0.006				668.	
		0.042	0.027		
	0.014				167.
		0.054	0.031		
0.000				-835.	
	0.000				1336.
0,001			_ ~ ~ ~ ~ ~	-668.	
	0.002				-167.
0.002				-868+	
مطه عومه عمو عييد وهد	0.003	have some about some from court			-334.
		0.050	0.031		
0.003				334.	
	0.004				157+
		, AND AND AND AND AND AND		501.	4.3
	0.003			44/5	-167.
9.005	A AAE			1169.	4 4 7
4. 885	0.005	<b></b>		774	167.
0.005		V VEO		334.	
		0.059	0.031		334.
	0.005				334+

AFF-100 RJ4, VARIABLE FUEL 1981 JULY 14,15

CLOCK	ELAPSET	PART-042	PART - 042	PART + 075	PART.075	PART.133	PART.133	PART
TIME	TIKE	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART
DY HR.	(MIN)		TSI-023		TSI-023	TSI-023	TSI-023	78I-
							_	
1 605	-175	-609.	-609.	222.	222.	0.	0.	•
1 835	-25	2175.		666.		120.		-3
1 845	-15		1.4E 04		3596.		167.	
1 1005	65	6351.		5.2E 04		4555.		123
1 1015	75		1.5E 04		5.5E 04		1350.	
1 1105	125	1392.		5.6E 04		1.1E 04		13
1 1115	135		-7482.		6.1E 04	****	5712.	
1 1205	185	1740.		5.2E 04		1.8E 04		11
1 1215	195		957.		6.2E 04	and other spins damp gape,	7399.	
1 1305	245	-522.		4.2E 04		2.6E 04		24
1 1315	255		87.		5.6E 04		1.2E 04	
1 1405	305	-1566.		3.2E 04		2.7E 04		51
1 1415	315		1392.		2.3E 04		3.1E 04	
1 1505	365	-2610.		2.8E 04		2.0E 04		64
1 1515	375		2610.		4.2E 04	-	1.8E 04	
1 1605	425	٥.		1.7E 04		_ , _ , _ ,		24
1 1615	435		3393.		3.8E 04		1.4E 04	
2 835	1415	435.		222.	~ ~ ~ ~ ~ ~	554.		-98
2 845	1425		-348.		888.		1856.	
2 1005	1505	870.		89.		217.		1:
2 1015	1515		174.		799.		1301.	
2 1105	1565	348.		622.		48.	tota eten saas vans ette untu	135
2 1115	1575		-1131.		1643.		964.	
2 1205	1625	261.		355.		337.		7
2 1215	1635		174.		400.	***	916.	
2 1305	1685	174.		755.	Name 2000 Mars 2000 Salat 2014	337.	prior order name town class	-12
2 1315	1695		174.		1199.		651.	
2 1405	1745	87.	***************************************	1288.		603.		-25
2 1415	1755		174.		622.		627.	
2 1505	1805	174.	Mary Flore \$500 copy home \$400	1998.		1084.		37
2 1515	1815		348.		932.		554.	

SIDE 1 SIDE 2 SIDE 1 SIDE 2 SIDE 1 SIDE 2 SIDE

į

2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
075	PART,133	PART.133	PART.237		PART.422	PART.422
cc	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
23	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
<b>}.</b>	٥.	0.	0.	Ö.	20.	20.
ļ	120.		-37,		20.	
		169.		49.		13.
	4555.		123.		27.	
04		1350.		61.		20.
	1.1E 04		135.		13.	man anna dere plays more merk
04		5712.	**** *** *** ***	25.		13.
	1.8E 04		111.		-47.	When sood dark soon with AMIL
04		7399.	**** **** **** **** ****	37.		27.
	2.6E 04		246.	Twin the unio 1889 and and	-20.	
04		1.2E 04		0.		93+
}	2,7E 04		517.		7.	
04		3.1E 04		62.		7.
\	2.0E 04		640.		13.	
04		1.8E 04		86,		13.
h	1.9E 04		246.		47.	~ ~ ~ ~ ~ ~
04	and the case and have and	1.4E 04		86.		20.
	554.		-98.	** ** ** ** **	53.	
<b>.</b>		1856.		25.		-80.
	217.		12.		40.	
<b>}</b> •		1301.		98.		7.
<u> </u>	48.		135.		7.	
۶.		964.		74.		7.
	337.		74.		13.	
<b>)</b> •		916.		111.		40.
	337.		-12.		-7.	
<b>&gt;</b> +		651.		25.		-13.
	663.		-25.		7.	
۶.	and they are with the part	627.		-61.		40.
<u></u>	1084.		37.		7.	
<b>2.</b>		554		61.		47.

		SIDE 1	SIDE 2
CLOCK	ELAPSED	PART.750	PART.750
TIME	TIME	PART/CC	PART/CC
DY HR.	(MIN)	TSI-023	TSI-023
1 605	-175	0.	Ö.
1 835	-25	18.	
1 845	-15		7.
1 1005	65	٥.	-
1 1015	75		٥.
1 1105	125	18.	
1 1115	135		18.
1 1205	185	-7.	
1 1215	195		7.
1 1305	245	18.	
1315	255		39.
1 1405	305	39.	
1 1415	315		18.
1 1505	365	11.	
1 1515	375		-4.
1 1605	425	35.	
1 1615	435		32.
2 835	1415	21.	
2 845	1425		35.
2 1005	1505	14.	
2 1015	1515	come most verse dame talket diden	4.
2 1105	1565	7.	
2 1115	1575		7.
2 1205	1625	14.	
2 1215	1635		-7.
2 1305	1685	-2173.	
2 1315	1695		11.
2 1405	1745	-11.	
2 835 2 845 2 1005 2 1015 2 1105 2 1115 2 1205 2 1215 2 1305 2 1315 2 1405 2 1415 2 1505 2 1515	1755	and many other deep busy state	-2369.
2 1505	1805	7.	
2 1515	1815		-4.

---- NO DATA TAKEN

491

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AFF-101
JP-10: VARIABLE FUEL
1981, JULY 16-17
DAY 1
        (JULY 16)
  0445: START FILL. WET: 6.0; DRY: 0.0; WET BULB TEMP: 14.5C; DRY BULB TEMP: 22.
        DEW POINT: 8.4C; RH=42%
  0628: INJECTED 5 HL NO2
  0630: INJECTED 18 ML NO
  0632: DIVIDE BAG
  0645: INJECTED 624 MICROLITERS JP10 INTO SIDE A
  0702: INJECTED 312 MICROLITERS JP10 INTO SIDE B
  0900: UNCOVERED BAG (T=0)
  0905: WEATHER: SUNNY, CLEAR, WARM
  1620: END SAMPLING, DAY 1
DAY 2
        (JULY 21)
  0900: UNCOVERED BAG
  0905: WEATHER: SUNNY, CLEAR, WARM
  1520; END SAMPLING, DAY 2; RUN OVER.
RESULTS
                       DAY 1
                                            DAY 2
AVG.T(DEG.C)
                       38(+-2)
                                            39(+-3)
                       2.6(+-0.7)
                                            2.9(+-0.7)
AVG.UV(MW/CM2)
T=0 AT
        900 PST
          22 USED
BAG NO.
                   AVERAGE
  ID
           INST.
                             S.DEV
                                     UNITS
                    VALUE
                             5.9
                                       DEG C
T
         DORIC-1
                    36.5
                                               SIDE 1
T
         DORIC-1
                    36.8
                             5.2
                                       DEG C
                                               SIDE 2
UV RAD
         EPPLEY-2
                    2.74
                                      MW/CM2
                            0.66
                   INITIAL
  ID
           INST.
                             UNITS
                    CONC.
NO
         B-NOX-1
                    0.371
                              PPM
                                       SIDE 1
NO
         B-NOX-1
                    0.375
                              PPM
                                       SIDE 2
                              PPM
NO2-UNC
         B-NOX-1
                    0.119
                                       SIDE 1
                              PPM
NO2-UNC
         B-NOX-1
                    0.115
                                       SIDE
                              PPK
JP-10
         VAR 3700 4.5890
                                       SIDE 1
                              PPM
JP-10
         VAR 3700 2.4770
                                       SIDE 2
  INSTRUMENTS USED
  ID
       LABEL
               DESCRIPTION
 4300 TSI-023
               TSI ELECTRICAL AEROSOL ANALYZER MD:3030
                CLIMET 208 OFTICAL PART, CTR#SN:76-148
 4350 CLIMET
               MRI INTEGRATING NEPHELOMETER MD:1550B
 4400 MRI-388
                ENV ONE RICH100 CONDENS NUCLEI CTR; SN143
 4200 CNC-143
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2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2100 PN-1 RM-121 POROPAK-N GC; FID CHROMOTROPIC ACID HCHO ANALYSIS 3000 CA 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID 1790 D~1790 DASIBI 1790 OZONE MONITOR 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 4000 ECD-3 AF-LAB; 12 5% CARBOWAX-600 GC; ECD 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG

AFF-101 JF-10: VARIABLE FUEL 1981, JULY 16-17

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE
CLOCK	ELAPSED	OZONE	OZONE	סא	NO	NO2-UNC	NO2-UNC	N-XON
TIME	TIME	PPM	PPM	PPM	PPM	PPM	PPM	PPM
DY HR.	(MIN)	D-1790	D-1790	B-N0X-1	B-NOX-1	B-NOX-1	B-N0X-1	B-MOX
1 605	~175	0.000	0.000	0.009	0.009	0.000	0.000	0.0
1 825	-35	~						
1 835	-25	0.000		0.371	-	0.119	***	0.4
1 845	-15		0.000		0.375		0.115	
1 1005	65	0.001	~	0.305		0.175		0.4
1 1015	75	0+001	0.002		0.301	V+1/0	0.175	
1 1105	125	0.005		0.235		0.221		0,4
1 1115	135		^.004	V+2-0-	0.240	V+221	0.218	
1 1205	185	0.012		0.161	V+24V	0.283		0.4
1 1205	195	0+012	0.011	V+101	0.179		0.271	
1 1305	245	0.028	O+011	0.090	O+1//	0.350		0.4
1 1315	255	V+V20	0.018		0,119	V+00V	0.330	~~~~
1 1405	305	0.059	~~~~~		V+11/	0.389		0.4
1 1415	315	V+V07	0.028		0.071		0.367	
1 1505	365	0.108		0.023		0.391		0.4
1 1515	375	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0.046		0.046		0.385	
1 1605	425	0.156		0.016		0.375		0.3
1 1615	435		0.061		0.030		0.390	
1 1010	400		0.400.		0 7 0 0 0			
2 710	1330	· · · · · · ·						
2 835	1415	0.006		0.009		0.179		0.1
2 845	1425		0.007		0.011	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.330	
2 1005	1505	0.128		0.011		0.163		0.1
2 1015	1515		0.123		0.021		0.297	
2 1105	1565	0.249		0,009		0.147	sees to down dress some some	0.1
2 1115	1575		0.207		0.011	-	0.279	
2 1205	1625	0.382		0.010		0.240		0.3
2 1215	1635		0.321		0.008	,	0.251	
2 1305	1685	0.492		0.008		0.099		0.1
2 1315	1695		0.449		0.010		0,222	
2 1405	1745	0.548		0.008	men and apt the test has	0.079		0.0
2 1415	1755		0.561	****	0.010		0.185	
2 1505	1805	0.553		0.008		0.061		0.0
2 1515	1815		0.624		0.009		0.142	

- NO DATA TAKEN

493

Secretary.

X-1     B-NOX-1     B-NOX-1     B-NOX-1     VAR 3700       009     0.000     0.000     0.001     0.001         0.119      0.491      4.404       375      0.115      0.490      4.764       301      0.175      0.485	SIDE 2 JP-10 PPM	SIDE 1 JP-10 PPM	SIDE 2 NOX-UNC PPM	SIDE 1 NOX-UNC PPM	SIDE 2 NO2-UNC PPM	SIDE 1 NO2-UNC PPM	E 2 M
0.119 0.491 0.490 0.175 0.490 0.476 0.175 0.490 0.476 0.221 0.472 0.283 0.471 0.481 0.283 0.471 0.470 0.350 0.451 0.468 0.389 0.461 0.389 0.468 0.491 0.389 0.441 0.367 0.491 0.367 0.491 0.375 0.491 0.492 0.375 0.397 0.421 4.256 0.375 0.397 0.397 0.428 0.375 0.390 0.428 0.428 0.179 0.390 0.428 0.179 0.188 0.468 0.391 0.390 0.428 0.391 0.390 0.428 0.391 0.390 0.428 0.391 0.390 0.390 0.428 0.390 0.390 0.428 0.390 0.330 0.310 0.341 0.350 0.310 0.350 0.310 0.350 0.310 0.297 0.310 0.297 0.310 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.29	VAR 3700	VAR 3700					•
0.119          0.491             375          0.175          0.490            301          0.175          0.485             0.221          0.472            240          0.218          0.481            0.283          0.471            179          0.471          4.291           179          0.451			0.001	0.001			009
375          0.115          0.490          4.764           301          0.175          0.485            240          0.218          0.481             0.283          0.471          4.291           179          0.350          0.471              0.350          0.451             119          0.330          0.468							
0.175          0.490          4.764           301          0.175          0.485            240          0.218          0.481             0.283          0.471          4.291           179          0.350          0.451              0.350          0.451             119          0.330          0.468            119          0.367          0.452				0.491			
301        0.175        0.472          240        0.218        0.481          179        0.471        4.291         179        0.451            0.350        0.451           0.389        0.441          071        0.367        0.452          0.391        0.421        4.256         046        0.385        0.439          0       0.375        0.397          030        0.390        4.283          0.179	2.377		0.490				
0.221          0.472            240          0.218          0.481            179          0.271          0.470            119          0.330          0.468            119          0.367          0.468            071          0.367          0.452             0.391          0.421				0.490		0.175	
240        0.218        0.471        4.291         179        0.271        0.470           0.350        0.451           119        0.330        0.468           0.389        0.441           071        0.367        0.452           0.391        0.421			0.485		0.1/5		301
0.283          0.471          4.291           179          0.470              0.350          0.451            119          0.330          0.468            071          0.367          0.452            0         0.391          0.421          4.256           046          0.385          0.439            0         0.375          0.397            030          0.390          4.283            0.379          4.283            0.163          0.188            011				0,472			
179        0.271        0.470           0.350        0.451           119        0.330        0.468           0.389        0.441           071        0.367        4.256         046        0.385	2.327		0.481				
0.350        0.451         0.468         0.441         0.452         0.452         4.256        0.421				0.471			l
119        0.330        0.441          071        0.367        0.452           0.391        0.421        4.256         046        0.385        0.439           0.375        0.397           030        0.390        4.283          0.179        0.188          011        0.330        4.468         021        0.175        4.468         021        0.177        4.468         021        0.153           011        0.153           011        0.279        0.291           0.240        0.310        4.354          0.099							1/9
0.389          0.441             071          0.367          0.452            046          0.385          0.439            030          0.397             030          0.397	***						3 4 55
071        0.367        0.452          046        0.385        0.439          030        0.397           030        0.390        4.283          0.179	2.373		0.468				117
0.391        0.421        4.256         046        0.385        0.439          030        0.397           030        0.428           0.179        4.283          0.179							074
046        0.385        0.439          030        0.390        0.428          030        0.428        4.283          0.179        0.188           011        0.330			0.452		0.367		
0.375       0.397       0.428          030        0.390        0.428          0.179        0.188         4.283         011        0.330        0.341           011        0.163        0.175        4.468         021        0.297        0.319          011        0.153           011        0.279        0.291          008        0.310        4.354         008        0.105					A 705		l .
030        0.390        0.428           0.179        0.188           011        0.330        0.341          0       0.163        0.175        4.468         021        0.297        0.319          0       0.147        0.153					0.385		
0.179					A 70A	0.3/3	i e
0.179        0.188           011        0.330        0.341           0.163        0.175        4.468         021        0.297        0.319           0.147        0.153	2.155		0.428	*** *** *** *** ***	0.390		030
011        0.330        0.341           0.163        0.175        4.468         021        0.297        0.319          011        0.279        0.291          011        0.279        0.291          008        0.310        4.354         008        0.251        0.263          010        0.222        0.230          0-079        0.084        4.240         010        0.185        0.190           0.061        0.068							
0.163        0.175        4.468         021        0.297        0.319          0.147        0.153           011        0.279        0.291          0       0.240        0.310        4.354         008        0.251        0.263          0       0.099        0.105           010        0.222        0.230           0.079        0.084        4.240         010        0.185        0.190           0.061        0.068							
021      0.297      0.319        011      0.279      0.291        0     0.240      0.310      4.354       008      0.251      0.263        0     0.099      0.105         010      0.222      0.230        0     0.079      0.084	2.252						
0.147      0.153         011      0.279      0.291        0.240      0.310      4.354       008      0.251      0.263        0.099      0.105         010      0.222      0.230         0.079      0.084      4.240       010      0.190         0.061      0.068		4.468		0.175			
011      0.279      0.291        0.240      0.310      4.354       008      0.251      0.263        0.099      0.105         010      0.222      0.230        0.079      0.084      4.240       010      0.185      0.190         0.061      0.068			0.319				
0.240				0.153			Į.
008      0.251      0.263        010      0.105      0.230        010      0.079      0.084      4.240       010      0.185      0.190         0.061      0.068	2.216				0.279		011
0.099 0.105 0.230 010 0.222 0.230 010 0.084 4.240 010 0.185 0.190 0.061 0.068				0.310			
010 0.222 0.230 + 0.079 0.084 4.240 010 0.185 0.190 0.061 0.068				*** *** *** *** ***			008
0.079 0.084 4.240 010 0.185 0.190 0.061 0.068				0.105			
010 0.185 0.190 0.061 0.068	··· ·· · · · · · ·			***			010
0.061 0.068				0.084			
			0.190		0.185		010
009 0.142 0.151	2.135		0.151		0.142	sales made year, "4 time such	009

SIDE 1 SIDE 2

AFF-101

			~ · · · · ·	W.X.D L		0.10		W 2 3 4 2 2	0.10.0
	CLOCK	ELAPSED		T	UV RAD	CONDENS	CONDENS	#PART>.3	#PART
	TIME	TIME	DEG C	DEG C	MW/CM2	10E3/CC	10E3/CC	PART/CC	PART/
	DY HR.	(MIM)	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC-143	CLIMET	CLIM
	1 605	-175	22,2	22.2		0.0	0.0	0.	o
	1 835	-25	29.1			0.0		0.	
	1 845	-15		31.7	ALC DATE AND THE PART		1.3		0
	1 1005	65	33,9		2.14	0.0		36.	
	1 1015	75		36.2	2.59		1.6		13
	1 1105	125	37.0		3.09	0.1		39.	
	1 1115	135		39.3	3.36	***************************************	1.3		173
	1 1205	185	40.2		3.23	0.0		34.	
	1 1215	195		39.2	3.28		1.2		302
	1 1305	245	41.3		3.23	0.0		39.	
	1 1315	255		41.4	3.19		0.8		356
	1 1405	305	41.0		2.59	0.0		53.	
	1 1415	315		39.6	2.45		0,7		376
	1 1505	365	40.3		2.09	0.0		70.	
	1 1515	375		39.3	2.05		0.5		431
	1 1605	425	37.0		1.59	0.0		102.	
	1 1615	435	unga ugay kalik silak pilak anga	36.7	1.37	gard have been start and	0.4		465
	2 835	1415	27.5		ARRES 2016 2070 1000 MILE	0.0		41.	
:	2 845	1425		29.3		per 1000 1000 1000 1000 1000	0.0		28
:	2 1005	1505	33.4		2,23	0.0		68,	
	2 1015	1515		35.1	3.09		0.0		18
:	2 1105	1565	36.0		3.91	0.3		189.	
:	2 1115	1575		38.3	3.87		0.0	***************************************	51
:	2 1205	1625	39.7		3.19	0.7		364.	
	2 1215	1635	-	39.6	3.28		0.1		169
:	2 1305	1685	42.8	-	3.28	0.8		419.	
	2 1315	1695		42.1	3.14		0.3		229
	2 1405	1745	41.9		2.54	0 • 8		427.	
	2 1415	1755		40.1	2.45		0.5		331
	2 1505	1805	40.0	_~	2.09	0.5		405.	**** **** ****
:	2 1515	1815		39.1	2.05		0.6		380

SIDE 1 SIDE 2 SIDE 1

SIDE

SIDE 2 CONDENS 10E3/CC	SIDE 1 #PART>.3 PART/CC	SIDE 2 *PART>.3 PART/CC	SIDE 1 #PART>.5 PART/CC	SIDE 2 *PART>.5 PART/CC	SIDE 1 #PART>1 PART/CC	SIDE 2 #PART>1 PART/CC
CNC-143	CLIMET	CLIMET	CLIMET	CLIMET	CLIMET	CLIMET
3.0	0.	0.	٥.	0.	0.	0.
	0.		٥.		٥.	
1.3		0.		0.		0.
	36.		1.		0.	
1 + 6	39.	13.	33.	0.	0.	0.
1.3	37+	173.		10.		0.
1+0	34.	1/5+	32.	10+	1.	
1.2		302.		69.		0.
	39.		31.		18.	
0.8		356.		131.		4.
page party paths asset from ones	53.		41.		2.	
0.7		376.		165.		8.
	70.		51.		18.	
0.5		431.		189.		12.
	102.		7 <b>0</b> .		6.	
0 + 4	MAIN ARMS NOVO PROM. POST ADDRESS.	465.	5000 THAN 1700 VITA SETT PAGE	182.		17.
	41.		1.		0.	
0.0		28.		26.		0.
	48.		۶.		2.	
0.0		18.		17.		13.
	189.		81.		17.	
0.0		51.		23.		13.
	364.		215.		40.	
0.1	419.	169.	285.	116.	56.	13.
0.3	417+	229.	201.	166.	70.	32.
V+3	427.	227.	297.	100+	60.	J&+ 
0.5	7/+	331.	£7/+	206.		50.
	405.		280,		51.	
0.6	71 (7 C) 4	380.		240.		55.

F

AFF-101 JP-10: VARIABLE FUEL 1981, JULY 16-17

SIDE 1 SIDE 2 SIDE 1 SIDE 2 SIDE 1 SIDE 2  CLOCK ELAPSED BSCAT BSCAT AER.V AER.V AER.N AER.N  TIME TIME 10-4 M-1 10-4 M-1 UM3/CC UM3/CC PART/CC  DY HR. (MIN) MRI-388 MRI-388 TSI-023 TSI-023 TSI-023 TS1-023	AER.S UM2/CI TSI-02
1 605 -175 0.2 0.2 1. 117281728.	15.
1 835 -25 0.4 2, 407,	<b>2</b> U •
1 845 -15 0.5 2 2208.	
1 1005	~ ~ ~
1 1015 75 3.2 5 5034.	
1 1105 125 0.5 1 365.	14.
1 1115 135 5.6 11 8/15.	
1 1205 185 0.9 2 796.	, •
1 1215 195 9.1 9 82/1.	
1 1305 245 1.0 2 449	21.
i 1315 255 13.0 12 /4/5.	
1 1405 305 1.5 2 223.	-4+
1 1415 315 15.0 14 8114.	- 21.
1 1505 365 2.0 175.	- 41+
1 1515 375 14.0 16 4287	- 59.
1 1605 425 2.5 4 1809 4225.	- J7 ·
1 1615 435 17.02 4225.	
2 835 1415 1.1 3 468	
2 845 1425 1.1 1, 768,	-
2 1005 1505 2.08102.	
2 1015 1515 1.1 5 336.	
2 1105 1545 4.2 9 1310	# 10.
2 1115 1575 1.3 2 477.	
2 1205 1425 11.0 22 2675.	0.1
2 12 12 16 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	
2 1705 1405 14.0 13 6122+	0.10
2 1715 1695 6.0 77.	
2 1405 1745 14.5 14 4808	0.20
2 1415 1755 9.5 6 2921.	
2 1505 1805 15.0 8 1536.	- 210
2 1515 1815 12.5 12 4511.	

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SIDE 1 AER.N	SIDE 2 AER·N	SIDE 1 AER.S	SIDE 2 AER/S	SIDE 1 PAN	SIDE 2 Pan
PART/CC	PART/CC	UM2/CC	UM2/CC	PPM	PPM
TSI-023	TSI-023	TSI-023	TSI-023	ECD-3	ECD-3
131 020	101 010	,01 4.1			
-1728.	-1728.	15.	15.		
407.		28.		0.001	
	2208.		38.		0.000
1039.		86.		0.001	
	5034.		213.		0.001
365.		14		0.001	
	8715.		327.		0.001
-796.		9.		0.002	
	8271.		311.		0.001
449.		21.		0.002	
	7475.		365.		0.001
223.		-4.		0.001	
	8114.		356.		0.001
-75.		21.		0.004	
	4287.		340.		0.002
1809.		59.		0.004	
	4225.		183.		0.002
468.		41.		0.009	
	768.		36.		0.005
-102.		-49.		0.009	
	336.		56.		0.006
1310.		140.		0.011	
	477.		40.		0.007
2675.		319.		0.012	
	982.		53.		0.010
6122.		313.		0.013	
	70.		-61.		0.012
4808.		320.		0.015	man case tree that the SPR
	2921.		186.		0.017
1536.		210.		0.015	
	4511.		273.		0.022

496

AFF-101 JF-10: VARIABLE FUEL 1981, JULY 16-17

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 PART.024 PART/CC TSI-023	SIDE 1 PART.042 PART/CC TSI-023	SIDE 2 PART.042 PART/CC TSI-923	SIDE PART. PART/ TSI-0:
1 605	-175			-2171.	-2171.	174.	174.	222
1 810	-50	0.015	0.000	Per 100 PM 100 UK 100				
1 835	-25			-167.		174.		400
1 845	-15			700 100 100 100 100 100 100 100 100 100	1336.		261.	
1 1005 1 1015	65 75			501.	-1336.	522.	-1566.	44
1 11015	125			167.	-1336+	87.	-1305.	89
1 1115	135			10/+	334.	0/+	87.	
1 1200	180	0.008	0,002		334+			
1 1205	185			-167.	No. 18 1000 Tags 1000 1000	-522.		-444
1 1215	195				167.		-87,	
1 1305	45			0.		174.		178
1 1315	255			NEW 2004 - 012 - 102 - 2024	167.		87.	
1 1405	305			167.		87.		89
1 1415	315				835.		1653.	
1 1505	365			-668.		435.		89
1 1515	375				-1169.		174.	
1 1605	425			1837.		-261.		-400
1 1610	430	0.017	0,008		~			
1 1615	435			arm with this was true tous	-835.		522.	
2 810	1390	0.029	0.030				100 top one and age on	
2 835	1415			167.	THE P 4 HAT HAS SEE THE	-87.		O
2 845	1425				501.		87.	
2 1005	1505			-668.	**************************************	435.		89
2 1015	1515			200 C. J.	334.		-261.	
2 1105	1565			-501.		174.	957.	311
2 1115 2 1200	1575 1620	0.046	0.036		-663.		95/+	
2 1200	1625	0.046	U+U36	1169.	**************************************	-1914.		266
2 1205	1635			1107.	0.	-1714.	87.	260
2 1215	1685			2004.	· · · · · · · · · · · · · · · · · · ·	-783.	87.	1066
2 1315	1695			2004.	-1503.	-/03+	522.	1000
2 1405	1745			-501.	-1300+	870.	J-&+	710
2 1415	1755	9000 The good black have area		-301+	-334.	0/0+	-261.	710
2 1505	1805			-2171.		261.	201+	888
2 1510	1810	0.047	0.010					
2 1515	1815				-167.	~~ ~~~	348.	

SIDE 2 PART.042 PART/CC TSI-023	SIDE 1 PART.075 PART/CC TSI-023	SIDE 2 PART.075 PART/CC TSI-023	SIDE 1 PART.133 PART/CC TSI-023	SIDE 2 PART.133 PART/CC TSI-023	
174.	222.	222.	24.	24.	
	400.		24.		
261.	700+	311.	24.	265.	
	44.	J11+	-120.	200+	
-1566.		6172.		1711.	
	89.		0.		
87.		5150.		2964.	
	-444.		482.		
-87.	-	4573.		3519.	
	178.		72.		
87.		2531.		4579.	
	89.		-72.		
1653.	Name office area office after mate	977.		4579.	
	89.		-120.		
174.		1154.		3856.	
	-400.	when wear some time yelps jum	554.		
522.	**** **** **** **** **** ****	888。		3567.	
			AND date I the layer than supe		
	0.		386.	purpo 78mm bejon dejday daja d 18800	
87.		222.		-121.	
	89.		48.		
-261.		133.		96.	
957.	311,		1253.		
40/+		89.		72.	
	266.		2940.		
87.	200+		2740+	602.	
0/+	1066.	178.	3687.	002.	
522.	1000+	710.	300/+	313.	
J22+	710.	/10.	3350.	313+	
-261.	/10•	1066.	3330+	2338.	
	888.	1000+	2410.	2330+	
			2710+		
348.		1288.		2820.	

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		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
CLOCK	FLARSED	PART,237	PART.237	PART.422	PART.422	PART.750	PART.750
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
DY HR.	(MIN)	TSI-023	TS1-023	TSI-023	TSI-023	TSI-023	TSI-023
2.1 11111	***************************************	. C. T. O. C.	101 020	101 020	101 020	101 020	131 023
1 605	-175	12.	12.	7.	7.	4.	4.
1 835	-25	-74.	~~~~	47.		4.	
1 845	-15		25.		7.		4.
1 1005	65	37.	~~~~~~~~	13.		42.	per 1614 per 1614 aur 2016
1 1015	75		37.		13.		4.
1 1105	125	12.		7,		4 +	
1 1115	135	area when here (Mig. Squar page	135.		27.		18.
1 1205	185	-172.		20.		7.	
1 1215	195	Chi The last date and and	98.		-13.		14.
1 1305	245	25,		-7.		7.	
i 1315	255		37.		60.		14.
1 1405	305	25.		-100.		28.	
1 1415	315		12.		27.	-	32.
1 1505	365	246.		-67.		11.	~~~~~
1 1515	375		295.		-80.		56.
1 1605	425	62+	2	7.	****************	11.	
1 1615	435		98.		20.		-35.
2 835	1415	-25.		20.		7.	
2 845	1425		-37.		133.		-18.
2 1005	1505	12.		20.		-39.	
2 1015	1515		-25.		4O.		18.
2 1105	1565	61.		~ 27.	and ann and may man 2ml	39.	~~~~
2 1115	1575		-49.	APP 2005 No. 1000 Sinc time	80.		-4.
2 1205	1625	172.	OFFI Lot. Sale plan are you	-47.		88.	
2 1215	1635		148.		-40.		7.
2 1305	1685	37.		93.		18.	
2 1315	1695		123.		-47.		-49,
2 1405	1745	357.		-13.	~	35.	~
2 1415	1755		86.		20.		7.
2 1505	1805	74.	1955 sond tells talk dity) start	67.		7.	×
2 1515	1815		185.		7.		32.

---- NO DATA TAKEN

# AFF-102 PROPENE/NOX CONDITIONING 1981, JULY 20

0805: START FILL. WET 5.9; DRY: 0.0

0858: INJECTED 11.0 ML NO2

0900: INJECTED 12.0 ML NO

0902: INJECTED 22.5 ML PROPENE

0932: UNCOVERED BAG (T=0)

0935: WEATHER: SUUNY, CLEAR, WARM

1400: BAG COVERED; RUN OVER.

T=0 AT 920 PST

22 USED RAG NO.

1 D INST. AVERAGE S.DEV UNITS VALUE

T 38.5 7.7 DEG C DORIC-1

ID INST. INITIAL UNITS CONC. 0.240

B-NOX-1 PPM NO2-UNC B-NOX-1 0.203 PPM

# INSTRUMENTS USED

LABEL DESCRIPTION ID DASIBI 1790 OZONE MONITOR 179C D-1790 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 1800 DORIC-1 DORIC TEMPERATURE INDICATOR: SN 61479 4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030 CLIMET 208 OPTICAL PART. CTR; SN:76-148 4350 CLIMET 4200 CNC-143 ENV ONE RICH100 CONDENS NUCLEI CFR†SN143

0.

1169.

CLOCK	ELAPSED	0ZONE	NO	NO2-UNC	NOX-UNC	T	CONDENS	#PART/
TIME	TIME	PPM	PPM	PPM	PPM	DEG C	10E3/CC	PART/
DY HR.	(MIN)	D-1790	B-NOX-1	B-MOX-1	B-NOX-1	DORIC-1	CNC-143	CLIM
1 920	0	0.000	0.240	0.203	0.462	33.1	0.0	Q
1 1355	275	0.810	0.013	6.209	0.219	44.0	0.1	246
CLOCK	ELAPSED	AER.S	PART.024	PART.042	PART.075	PART:133	PART.237	PART.
TIME	TIME	UM2/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-C

522.

261,

-89.

622.

-24.

1422.

-12.

25.

---- NO DATA TAKEN

0

275

NOTES

1 920

1 1355

NEPHALOMETER DOES NOT WORK

28.

149.

C	T DEG C DORIC-1	CONDENS 10E3/CC CNC-143	#PART>.3 PART/CC CLIMET	#PART>.5 PART/CC CLIMET	#PART>1 PART/CC CLIMET	AER.V UM3/CC TSI-023	AER N PART/CC TG1-023
3	33.1 44.0	0.0	0. 246.	0. 41.	0.	4 • 7 •	405+ 3559+
075 00 23	PART.133 PART/CC TSI-023	PART.237 PART/CC TSI-023	PART.422 PART/CC TSI-023	PART.750 PART/CC TSI-02'			
•	-24. 1422.	-12. 25.	-13. 47.	21. 14.			

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0445: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 15.4 DRY BULB: 22.9 R.H.: 45% 0627: INJECTED 5.0 HL NO2 0629: INJECTED 18.0 ML NO 0631: DIVIDE BAG 0642: INJECTED 125 ML N-BUTANE INTO SIDE B 0645: INJECTED 312 MICROLITERS JP10 INTO SIDE A 0900: UCOVERED BAG (T=0) 0905: WEATHER: PARTIAL CLOUDS BUT CLEARING, WARM 1620: END OF RUN T=0 AT 900 PST

BAG NO. 22 USED

I D	INST.	AVERAGE VALUE	S.DEV	STINU	
T	DORIC-1	36.5	6.3	DEG C	SIDE 1
T	DORIC-1	36.7	6.2	DEG C	SIDE 2
UV RAD	EPPLEY-2	2.50	0.78	MW/CM2	
ID	INST.	INITIAL CONC.	UNITS		
ио	TI-NOX-1	0.389	PPM	SIDE 1	
ИО	B-NOX-1	0.390	PPM	SIDE 2	
NO2-UNC	B-NOX-1	0.125	PPM	SIDE 1	
NG2-UNC	B-NOX-1	9.131	PPM	SIDE 2	
N-C4	VA1400-7	5.7750	PPM	SIDE 2	
JF-10	VAR 3700	2.2740	PPM	SIDE 1	

# INSTRUMENTS USED

499

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M. A. C. Marting Comment of the Comm

ID LABEL	DESCRIPTION
4300 TSI-023	TST ELECTRICAL AEROSOL ANALYZER MD:3030
4350 CLIMET	CLIMET 208 OFTICAL PART. CTR; SN:76-148
4400 MRI-388	HRI INTEGRATING NEPHELOMETER HD:1550B
4200 CNC-143	ENV ONE RICHICO CONDENS NUCLEI CTR; \$N143
1790 D-1790	DASIBI 1790 OZONE MONITOR
4600 B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2
1800 DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479
4000 ECD-3	AF-: AB; 12° 5% CARBOWAX-600 GC; ECD
4131 EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG
2100 PN-1	RM-121 POROPAK-N GC; FID
1400 VA1400-7	RM-121; C20-N/DC-703 GC; FID
2200 DME-1	RM-121; DIMETHYLSULFOLANE GC; FID
2550 VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FIR
3000 CA	CHROMOTROPIC ACID HCHO ANALYSIS

AFF-103 JF-10 V3 N-BUTANE 1981, JULY 21

CLOCK TIME	ELAPSED TIME	SIDE 1 OZONE PPM	SIDE 2 OZONE PPM	SIDE i NO PPM	SIDE 2 NO PPM	SIDE 1 NO2-UNC PPM	SIDE 2 NO2-UNC PPM	SIDE J-XON 199
DY HR.	(MIN)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	אסא-פ
1 600	-180	0.000	0.000	0.000	0.000	0.000	0.000	0.0
1 715	-105		***************************************					
1 740	-80				great three about appear over. Square			
1 810	50	***************************************	THE SEC SELECTION COLUMN			-red man were some man been	ferr eat- long tree arm yets	** *** ***
1 835	-25	0.000		0.389	made against arter assert many	0.125		0.5
i 845	-15		0.000		0.390	and all the second to be	0.131	
1 1005	65	0.001		0.329	also tree east such roup staps	0.168		0.5
1 1015	75		0.002	neer man was you write the	0.250		0.249	
1 1105	125	0.003		0.278		0.206		0.4
1 1115	135		0.015		0.140		0.350	
1 1205	185	0.005		0.220		0.255	then differ that after allow after	0.4
1 1215	195		0.053	can can test box aper than	0.050		0.465	
1 1305	245	0.010		0.165	add? The shad sales had your	0.322		0.4
1 1315	255		0.135		0.015	5000 COM 6500 with 1707 Aug.	0.470	
1 1405	305	0.028		0.110	over their table again to the	0.342		0.4
1 1415	315		0.252	water which Types types cared design	0.000		0.482	
1 1505	365	0.028		0.070		0.402	from 1888 some orbit same Jour	0.4
1 1515	375		0.351		0,000		0.456	***
1 1605	425	0.038	~ ** ** ** **	0.045		0.419		0.4
1 1615	435		0.418		0.000		0.431	

NO DATA TAKEN

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2	SIDE 1 NO2-UNC	SIDE 2 NO2-UNC	SIDE 1 NOX-UNC	SIDE 2 NOX-UNC	SIDE 2 N-C4	SIDE 2 N-C4	SIDE 1 JP-10
4	PPM	PPM	. PM	PPM	PPM	PPM .	RPA
1−1	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	VA1400-7	DMS-1	VAR 3700
00	0.000	0.000	0.000	0.000			the part was the total
							2.183
			This with the sale that him			6.512	and was pulse staffs being paral
			few sum man your good and	100° Main 100° 10°0 10°0 1000	5.827		
	0.125		0.500			-	2.450
390	uppe Tales acres white help acres	0.131		0.478	5.775		
	0.168		0.500				2.414
250		0.249		0.498	5.713		
	0,206		0.491		war gree and took man blow	sale arm shall have some min	2.454
140		0.350		0.492	5.671	~~~~	
	0.255	dept place print date when there	0.439	and the sale of a sale tank			2.335
050		0.465	~ ~ ~ ~ ~ ~	0.400	5,609		
	0.322		0.491		signs again total black again,		
015	_ ~ ~ ~ ~ ~	0.470		0,480	5.537		*** ***
	0.342		0.479				2.176
000		0.482		0.493	5.474		
	0.402		0.485				2.453
000		0.456		0.462	5.412		
	0.419	~~~~	0.473				2,286
000	very serie deal saids than with	0.431		0.438	5.391	6.076	
5							

AFF-103 JF-10 VS N-BUTANE 1981, JULY 21

		SIDE 1	SIDE 2		SIDE 1	SIDE 2	SIDE 1	SID
CLOCK	ELAPSED	Т	T	UV RAD	CONDENS	CONDENS	#PART>.3	#PAR
TIME	TIME	DEG C	DEG C	MW/CM2	10E3/CC	10E3/CC	PART/CC	PART.
DY HR.	(MIN)	DORIG-1	DORIC-1	EPPLEY-2	CNC-143	CNC-143	CLIMET	CLI
1 / ^ ^	100	mm A	00.4		5.5			
1 600	-180	22,4	22.4		0.0	0.0	0.	1
1 835	-25	31.8			0.1		0.	
1 845	-15		32.1			0.1		•
1 1005	65	33.6		2.05	0.2		42.	
1 1015	75		35.1	2.41		0.2		(
1 1105	125	37.7		3.23	0.2		45.	
1 1115	135		38.4	3.19		0.1		(
1 1205	185	40.6		3.09	0.1		38.	<b></b>
1 1215	195		41.5	3.23		0.0		1
1 1305	245	39.7		3.00	0.1		33.	
1 1315	255		40.5	3.00		0.0		(
1 1405	305	42.3		2.59	0.1		42.	
1 1415	315		40.3	3.37		0.0		(
1 1505	365	41.4		1.73	0.2		52.	
1 1515	375		41.2	1.64		0.1		(
1 1605	425	38.6		1.32	0.1		54.	
1 1615	435		38.8	1.18		0.0		•

----- NO DATA TAKEN

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1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
NS	CONDENS	#PART>.3	#PART>.3	#PART>.5	#PART>.5	#PART>1	#PART>1
CC	10E3/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
43	CNC-143	CLIMET	CLIMET	CLIMET	CLIMET	CLIMET	CLIMET
0	0.0	0.	0.	0.	٥.	0.	0.
1		0.		٥.		٥.	
	0.1		0.		٥ ،		0.
2		42.		0.		0.	
	0.2		9.		0.		0.
2		45.	page and only open tony upper	i3.		0.	
	0.1		0.		0.		0.
1		38.		36.		0.	
	0.0		0.		0.		٥.
1		33.		29.		0.	
	0.0		0.		٥.		0.
1		42.		27.		4.	
	0.0		v.		0.		0.
2		52.		35.		13.	
<i>د. ح</i>	0.1		0.		0.		0.
1		54.		3ខ∙		9.	
	٥.٥		Λ.		Δ.		Δ.

AFF-103 JF-10 VS M-BUTANE 1981, JULY 21

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE
CLOCK	ELAPSED	BSCAT	BSCAT	AER.V	AER.V	AER.N	AER+N	AER.
TIME	TIME	10-4 M-1	10-4 M-1	UM3/CC	33\EMU	PART/CC	PART/CC	UM2/
DY HR.	(MIN)	MRI-388	MRI-388	TSI-023	TSI-023	TSI-023	TSI-023	TSI-(
t 600	-180	0.1	0.1	-12.	-12.	-1073.	-1073.	-83
i 835	-25	0.0		2.		997.		20
1 845	-15		0.0		() +		-424.	
1 1005	65	0.3		4.		119.	many state area 1-70 type dates	53
1 1015	75		0.1		3·		46.	
1 1105	125	0.8		5.		327.		46
1 1115	135		0.2		-1.		-200.	
1 1205	185	0.9		2.		-325.		17
l 1215	195		0.2		-2.		-233.	
1 1305	245	0 , 8		2.		137.		28
1 1315	255	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0		<b>১</b> •	, mar and and and and	-82.	
1 1405	305	1.0		3,		605.		42
1 1415	315		0.2		7.		1758.	
1 1505	365	1.2		6.		-225.		58
1 1515	375		0.2		1.		-240+	
1 1605	425	1.2		-2.	~~~~~	475.		-1(
1 1615	435		0.1	***************************************	3.		-110.	

---- NO DATA TAKEN

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DE 2 R·V 3/CC -023	SIPE 1 AER·N PART/CC TSI-023	SIDE 2 AER·N PART/CC TSI-023	SIDE 1 AER.S UM2/CC TSI-023	SIDE 2 AER.S UM2/CC TSI-023	SIDE 1 PAN PPM ECD-3	SIDE 2 PAN PPM ECD-3	
12.	-1073.	-1073.	-83.	-83.	A		A
,	997•		20.				
-0.		-424.		7.			
	119.	والمن شعر حجب ومن بين منه	53.				
3.		46.		29•			
	327.		46.		0.001		
-1.		-200.		-2.		0.010	
	-325.		17·		0.001		
-2.		-233.		-13.		0.014	
•	137.		28.		0.000		
	13/+	-82.		46.		0.018	
6.			42.				
	605.	1758.		32.		0.022	
7.		1/30+	58.		0.001		
	-225.	-240.		18.		0.029	
1.	A 79 ET	-240+	-10.				
	475.	-110.		19.		0.035	

AFF-103 JP-10 VS N-BUTANE 1981, JULY 21

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	нсно	нсно	PART.024	PART - 024	PART.042	PART - 042	PART
TIME	TIME	PPM	PPM	PART/CC	PART/CC	PART/CC	PART/CC	PART.
DY HR.	(MIN)	CA	CA	TSI-023	TSI-023	TSI-023	TSI-023	TSI-
1 600	-180			-668.	-668.	261.	261.	-142
1 810	-50	0.029	0.063					
1 835	-25			1002.		-174.		133
1 845	-15				-668.		174.	
1 1005	65			-501.		348.		89
1 1015	75		~~~~~		501.		-696.	
1 1105	125			334.	w ··· ···	-174.		-4
1 1115	135				-167.		-87.	
1 1200	180	0.036	0.029		*** *** *** *** ***			
1 1205	185	*** *** *** *** ***		334.		-609.	have sent that there have a m	-4
1 1215	195				-167.		87.	~~~.
1 1305	245			167.	~	-87.		-17
1 1315	255				334.		-435.	********
1 1405	305			-167.		435.		22:
1 1415	315				5010.		-5481.	
1 1505	365			-668.		87.		4
1 1515	375				-167.		-261.	
1 1605	425			334.		-174.		31
i 1610	430	0.010	0.025					
1 1615	435				167.		-435.	

--- NO DATA TAKEN

(And)

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VE 2 -024 -/CC -023	SIDE 1 PART.042 PART/CC TSI-023	SIBE 2 PART.042 PART/CC TSI-023	SIDE 1 PART.075 PART/CC TSI-023	SIDE 2 PART.075 PART/CC TSI-023	SIDE 1 PART.133 PART/CC TSI-023	SIDE 2 FART.133 FART/CC 1SI-023
8.		261.	-1421.	-1421.	506.	506.
01.	348.	174.  -696. 	133.  89. 	178. 133. 137.	24.  72. 193.	 -96.  96. 
57.	-609. -87. -435.	87 • -435 :	-44. -178. -222.	-133,  -89, 	-48.  169. 	-24. -24. 145. 
57.	87. 	-5481. -261. -2	44. 311.	-44.  178.	289. 	217.  217. 

AFF-103 JF-10 VS N-BUTANE 1981, JULY 21

		SIDE 1	SID ^r 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
CLOCK	ELAFSED	PART.237	PART.237	PART 422	PART.422	PART.750	PART.750
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
DY HR.	(MIM)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
4 (00	400	A / T	4/7	100	400	. 70	-39.
1 600	-180	467.	467.	-180.	-180.	-39.	-37+
1 835	-25	-12.		20.		4.	
1 845	-15		-74.		73.		-11.
1 1005	65	74.		27.		11.	
1 1015	75		-12.		13.		11.
1 1105	125	-12.		13.		18.	
1 1115	135		62.		7.		-7.
1 1205	185	12.		27.		4.	
1 1215	195	ander some from same when some	-25.		47.		-18.
1 1305	245	49.		13.		4.	
1 1315	255		-61.		-7.		32.
1 1405	305	12.		20.		11.	
1 1415	315		-37.		-33.		42.
1 1505	365	25.		-33.		32.	
1 1515	375	sales rate data come data difer	12.		0.		4.
1 1605	425	86.		-27.		-7.	
1 1615	435		-74.		20.		11.

---- NO DATA TAKEN

NOTES

A PANALYZER NOT WORKING PROPERLY UNTIL 1105 READING BECKMANN WAS NOT WORKING

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0840: START FILL. WET 6.0; DRY 0.0

1020: INJECTED 5 ML NO2

1022: INJECTED 16 ML NO

1024: INJECTED .4 ML PROPANE AND .4 ML PROPENE

1100: UNCOVER BAG (T=Q)

1105: WEATHER: SUNNY, HOT, LIGHT BREEZE

1300: RUN OVER

1330: COVERED BAG

NOTE: TEMPERATURE DATA UNREASONABLE AND SHOULD NOT BE USED.

#### **RESULTS:**

CALC. AVG. OH = 30.8 * D LN(PROPANE/PROPENE)/DT = 0.020(+-0.004) PPT CALC. RAD. INPUT = 16.0 * (AVG.OH) * (60+MIN.AVG.NO2) = 0.037 PPB/MIN NO OXIDATION RATE NELIGABLE

T=0 AT 1100 PST

BAG NO. 23 USED

TD INST. AVERAGE S.DEV UNITS
VALUE
UV RAD EPPLEY-2 3.68 0.18 MW/CM2
TD INST. INITIAL UNITS
CONC.

B-NOX-1 PPM NO 0.358 NO2-UNC B-NOX-1 0.108 PPM PROPANE DMS-1 0.0136 PPM PROPENE DMS-1 0.0094 PPM

### INSTRUMENTS USED

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LABEL DESCRIPTION CHROMOTROPIC ACID HCHO ANALYSIS 3000 CA 2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID 2100 PN-1 RM-121 POROPAK-N GC; FID 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 1790 D-1790 DASIBI 1790 OZONE MONITOR 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 AF-LAB# 12" 5% CARBOWAX-600 SC# ECD 4000 ECD-3 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG

AFF-104 NOX AIR IRRADIATION 1981. JULY 22

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	020NE PPM D-1790	NO FPM B-NOX-1	NO2-UNC PPM B-NOX-1	NOX-UNC PPM B-NOX-1	PROPANE PPM DMS-1	PROPENE PPM DMS-1	T DEE DORIC
1 1045	-15	0.000	0.345	0.102	0.451	0.0136	0.0094	34.
1 1055	-5							
1 1100	Q	0.000	0.358	0.108	0.474	0.0150	0.0108	37.
1 1115	13	0.000	0.361	0.111	0.485	0.0146	0.0100	45.
1 1130	30	0.001	0.369	0.118	0.483	0.0152	0.0105	49.
1 1145	45	0.002	0.395	0.120	0.499	0.0146	0.0100	51.
1 1200	60	0.001	0.389	0.125	0.490	0.0144	0.0098	49.
1 1215	75	0.000	0.341	0.107	0.456	0.0145	0.0097	52.
1 1230	90	0.001	0.332	0.105	0.446	0.0151	0.0099	53,
1 1245	105	0.002	0.360	0.110	0,480	0.0134	0.0090	54.
1 1250	110				~~~~~			
1 1300	120	0.000	0.360	0.119	0.480	0.0149	0.0097	54₊

CLOCK ELAPSED ACETALD
TIME TIME PPM
DY HR. (MIN) 10'C-600

1 1045 -15 0.0091
1 1300 120 0.0118

----- NO DATA TAKEN

R NOTES

A TEMPERATURE MEASUREMENTS UNREASONABLY HIGH. PROBABLE THAT WRONG PROBE WA

C	PROPANE PPM	PROPENE PPM	T DEG C	UV RAD MW/CM2	LMC3/C3=	PAN PPM	HCH0 PPM
- 1	DMS-1	DMS-1	DURIC-1	EPPLEY-2		ECD-3	SA
51	0.0136	0.0094	34.7 A	<b>,</b>	0.3717	0.000	
-			***				0.013
74	0.0150	0.0108	37.6	3.87	0.3280	0.000	
35	0.0146	0.0100	45.8	3.73	0.3769	~~~~~~	
33	0.0152	0.0165	49.6	3.82	0.3689		
9	0.0146	0.0100	51.3	3.64	0.3764	~~.~~	
0	0.0144	0.0098	49.9	3.87	0.3866		
6	0.0145	0.0097	52.4	3.82	0,3960		
16	0.0151	0.0099	53.8	3.59	0.4236		
80	0.0134	0.0090	54.7	3.45	0.3972	~~~~~	
							0.090
80	0.0149	0.0097	54.9	3.37	0.4294	0.000	

PROBABLE THAT WRONG PROBE WAS USED.

AFF-105 PROPENE-NOX CONDITIONING 1981: JULY 23

0705: START FILL, WET: 6.1; DRY: 0.0; WET BULB TEMP: 17.0C; DRY BULB TEMP: 27. RH=33%

0834: INJECTED 11.0 ML NO2 0836: INJECTED 12.0 ML NO

0838: INJECTED 22.5 ML PROPENE

0930: UNCOVERED BAG (T=0)

0935: WEATHER: SUNNY, WARM, SLIGHT BREEZE.

1430: RUN OVER.

T=0 AT 930 PST

BAG NU. 23 USED

U INST. AVERAGE S.DEV UNITS VALUE DORIC-1 36,2 5.0 DEG C UV RAD 3.28 0.57 EPPLEY-2 MW/CM2 IDINST. INITIAL UNITS CONC. NO B-NOX-1 0.218 PPK 0.200 NO2-UNC B-NOX-1 PPH

#### INSTRUMENTS USED

ID DESCRIPTION LABEL RM-121; DIMETHYLSULFOLANE GC; FID 2200 DMS-1 RH-121 POROPAK-N GC; FID 2100 PN-1 1790 D-1790 DASIBI 1790 DZONE MONITOR 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 DORIC TEMPERATURE INDICATOR, SN 61479 1500 BORIC-1 AF-LAB; 12° 5% CARBOWAX-500 GC; ECD 4000 ECD-3 4131 EPFLEY-2 EPFLEY 14290 UV RADIOMETER; UNDER BAG 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	0ZONE PFK D-1790	NO PPM E-NOX-1	NO2-UNC FPM B-NOX-1	NOX-UNC FPM B-NOX-1	PROPENE PPM DMS-1	T DEG C DORIC-1	UV   MW/ EPFL
1 845	-45	0.000	0.219	0.196	0.432	0.5329	27.4	5- a-s
1 930	0	0.005	0.218	0.200	0.429		28.6	2
1 1030	60	0.015	0.121	0.278	0.412		35.3	3.
1 1130	120	0.103	0.025	0.354	0.378		39.2	3.1
1 1230	180	0.345	0.010	0.306	0.315		40.3	3.
1 1300	210	0.567	0.008	0.248	0.259		41.2	3.
1 1430	300	0.710	0.008	0.213	0.220	0.0079	41.6	2.

---- NO DATA TAKEN

: 17.00; DRY BULB TEMP: 27.

1 2020500

PROPENE PPK DMS-1	T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	METHANE PPM PN-1	ETHENE PPM PN-1	ETHANE PPM PN-1
0.5329	27.4		1.73	0.0046	0.0071
	28.6	2.63			
	35.3	3.64			~~ ·~ · · · · · ·
	39.2	3.82			
-	40.3	3.78			***
	41.2	3.28			
0.0079	41.6	2.54	1.67	0.0026	0.0063

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AFF-105 PROPENE-NOX CONDITIONING 1981, JULY 23

	CLOCK TIME ( HR.	ELAPSED TIME (MIN)	ACETYLEN PPM PN-1	ACETYLEN PPM DMS-1	PROPANE PPM DMS-1	I-C4 PPM DMS-1	N-C4 PPM DMS-1	1-C4= PPM DMS-1	I-C4: PPM DMS-
1	845	-45	0.0027	0.0029	0.0071		0.0018	0.0002	0.00
1	930	0							<del></del>
1	1010	40							
1	1430	300	0.0019	0.0021	0.0063	0.0011	0.0010		0.000
1	1450	320						new new law offer adult from	

---- NO DATA TAKEN

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N-C4 PPM DMS-1	1-C4= PPM DMS-1	I-C4= PPM DMS-1	I-C5 PPM DMS-1	N-C5 PPM DMS-1	PAN PPM ECD-3	HCHO PPM CA
0.0018	0.0002	0.0002	0.0010	0.0006	0.000	
V + O V + O	~~~~~				0.000	
						0.025
0.0010		0.0001				
(110010		~~~~~				0.176

AFF-106 OZONE DECAY 1981 JULY 24

DAY 1 (JULY 24)

0615: START FILL. WET: 6.0 DRY: 0.0

0800: STOP FILL. (STOPPER WAS OUT--CAUSED LONGER FILLING TIME)

0750: INJECTED 10.5 LITERS OZONE.

0836: MIX BAG.

(JULY 25) DAY 2

BAG LOOKS GREAT! NO NOTICEABLE AIR LOSS.

DAY 4 (JULY 27)

30740: BAG~75-80% FULL.

END RUN.

RESULTS: OZONE DECAY RATE (%/HR)

DAY 1-DAY 2 0.27

DAY 2-DAY 4

0.26

T=O AT O PST

k1 = 0.450 MIN-1

INSTRUMENTS USED

1 D LABEL DESCRIPTION 1790 D-1790 DASIBI 1790 OZONE MONITOR

CLOCK ELAPSED OZONE TIME TIME PPM DY HR. (MIN) D-1790 1 1500 0 3,896 2 1120 1220 3.685

> 3.278 4 740 3880

---- NO DATA TAKEN

0920: START FILL. WET: 6.0, DRY: 0.0 WET BULB: 19.6, DRY BULB: 32.0 R.H.=31% DEW PT.=12.2

1022: INJECTED 5.0 ML. NO2.

1024: INJECTED 18.0 ML. NO.

1026: INJECTED 0.46 ML. PROPENE AND 0.46 ML. PROPANE.

1035: END FILL.

1040: MIX BAG.

1100: UNCOVER BAG (T=0).

1105: WEATHER: SUNNY AND HOT.

1300: RUN OVER, BAG DUMPED.

#### RESULTS:

CALC. AVG. OH = 30.8 * D LN(PROPANE/PROPENE)/DT = 0.032 PPT CALC. RAD. INPUT = 16.0 * (AVG.OH) * (60+MIN.AVG.NO2) = 0.041 PP3/MIN

-D(NO)/DT = 0.06 PPB/MIN

T=0 AT 1100 PST

K1 = 0.450 MIN-1

BAG NO. 23 USED

ID INST. AVERAGE S.DEV UNITS
VALUE
T DORIC-1 33.5 3.0 DEG C
UV RAD EPPLEY-2 3.14 0.24 MW/CM2

LD INST. INITIAL UNITS CONC. NO B-NOX-1 0.307 PPM NO2-UNC B-NOX-1 0.081 PPM PROPANE DMS-1 0.0149 PPH PROPENE DMS-1 0.0109 PPM

#### INSTRUMENTS USED

Th DESCRIPTION LABEL 1790 D-1790 DASIBI 1790 OZONE MONITOR BENDIX 8101BX NOX ANALYZER; SN300038-2 4600 B-NOX-1 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2100 PN-1 RM-121 POROPAK-N GC# FID 2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS AF-LAB; 12" 5% CARBOWAX-600 GC; ECD 4000 ECD-3

AFF-107 NOX-AIR IRRADIATION 1981 JULY 27

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	0ZONE FPM D-1790	NO PPM B-NOX-1	NO2-UNC PPM B-NOX-1	NOX-UNC PPM B-NOX-1	PROPANE PPM DMS-1	PROPENE PPM DMS-1	LNC
1 1045	-15			*************	~~~~~~~	0.0149	0.0109	٥,
1 1055	-5	0,000	0.307	0.081	0.391			
1 1058	-2							
1 1100	0					0.0144	0.0103	٥.
1 1115	15	0.002	0.309	0.082	0.389	0.0120	0.0083	Q.
1 1130	30	0.002	0.308	0.081	0.388	0.0139	0.0098	o.
1 1145	45	0.002	0.302	0.085	0.387	0.0137	0.0090	o.
1 1200	60	0.003	0.303	0.083	0.387	0.0130	0.0089	0.
1 1215	75	0.002	0.301	0.081	0.383	0.0102	0.0072	0.
1 1230	90	0.002	0.302	0.080	0.383	0.0124	0.0078	0.
1 1245	105	0.002	0.302	0.680	0.382	0.0131	0.0083	0.
1 1250	110							
1 1300	120	0.003	0.303	0.081	0.383	0.0138	0.0087	٥.

CLOCK	ELAPSED	ACETALD
TIME	TIME	PPM
DY HR.	(MIN)	10'C-600
1 1045	-15	0.0076
1 1300	120	0.0101

---- NO DATA TAKEN

UNC	PROPANE	PROPENE	LNC3/C3=	T Deg c	UV RAD MW/CM2	PAN PPM	HCHO PPM
M X-1	PPM DMS-1	PPM DMS-1		DORIC-1	EPPLEY-2	ECD-3	CA
	0.0149	0.0109	0.4720				
391				28.5		0.003	
371	***						0.015
	0.0144	0.0103	0.4950				
389	0.0120	0.0083	0.5190	30.2	3.09		
388	0.0120	0.0098	0.5100	31.6	3.23		
387	0.0137	0.0090	0.5740	32.7	3.28		
387	0.0130	0.0089	0.5380	33.7	3.00		
383	0.0102	0.0072	0.5140	34.6	2.82		
383	0.0124	0.0078	0.6160	36.8	2.86		
382	0.0131	0.0083	0.6100	36.6	3.46		
302	V. () TO T						0.010
383	0.0138	0.0087	0.6210	36.5	3.41	0.003	

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AFF-108
RJ5, 4-DAY STATIC
1981 JULY 28
DAY 1
        (JULY 28)
  0545: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 15.5
        DRY BULB: 21.5 DEW PT.: 11.1 R.H.= 54%
  0708: END FILL.
  0725: INJECTED 6.2 ML. NO2.
  0727: INJECTED 20.0 ML. NO.
  0729: INJECTED 400 ML, FREON 12.
  0736: INJECTED 915 MICROLITERS RJ-5 AT 250 DEGREES C FOR 30 MIN.
  0812: MIX BAG.
  0900: UNCOVERED BAG. (T=0)
  0905: WEATHER: SUNNY AND WARM.
DAY 2
        (JULY 29)
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0810: BAG HAS LIGHT COATING OF DEW, BUT IS BURNING OFF.

0811: WEATHER: SUNNY AND CLEAR.

DAY 3 (JULY 30)

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0810: WEATHER: SUNNY AND WARM.

(JULY 31) DAY 4

0827: INJECTED 20.0 ML. NO AT 200 ML/MIN. N2 FOR 10 MYN.

0837: INJECTED 6.2 ML. NO2 AT 200 ML/MIN. N2 FOR 10 MIN. NOTE: BOTH INJECTIONS WERE DONE WHILE FILLING THE

BAG WITH PURE AIR. PURE AIR FILLED FROM 0827 TO 0847. DILUTION FACTOR = 0.78

0850: MIX BAG.

1510: END RUN, BAG DUMPED.

RESULTS	DAY 1	DAY 2	DAY 3	DAY 4
AVG.T(DEG.C)	36(+-4)	33(+-5)	32(+-7)	32(+-7)
AUG.HU(MW/CM2)	2.6(+-0.8)	2.5(+-0.9)	2.8(+-1.1)	2.6(+-0.9)

T=0 AT 900 PST

ID	INST.	AVERAGE VALUE	S.DEV	UNITS
Ţ	DORIC-1		6.3	DEG C
UV RAD	EPPLEY-2	2.56	0.90	MW/CM2
ID	INST.	INITIAL CONC.	UNITS	

NO B-NOX-1 0.353 PPM NO2-UNC B-NOX-1 0.121 PPM PPMC

THC BK6800-1 23.70 AFF-108 RJ5, 4-DAY STATIC 1981 JULY 28

#### INSTRUMENTS USED SAMPLING RATE LABEL DESCRIPTION (ML/MIN) 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP, GC; FID 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2100 PN-1 RM-121 POROPAK-N GC; FJD 1790 D-1790 DASIBI 1790 OZONE MONITOR BENDIX 8101BX NOX ANALYZER; SN300038-2 4600 B-NDX-1 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 AF-LAB; 12 5% CARBOWAX-600 GC; ECD 4000 ECD-3 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG 4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030 4350 CLIMET CLIMET 208 OPTICAL PART. CTR; SN: 76-148 MRI INTEGRATING NEPHELOMETER MD:1550B 4400 MRI-388 4200 CNC-143 ENV ONE RICH100 CONDENS NUCLEI CTR; SN143 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS

AFF-108 RJ5, 4-RAY STATIC 1981 JULY 28

CLOCK	ELAPSED	OZONE PPM	NO PPM	NO2-UNC PPM	NOX-UNC MPP	THC PPMC	T DEG C	UV MW/
TIME DY HR.	TIME (MIN)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	BK6800-1	DORIC-1	EPPL
1 705	-115	0.001	0.009	0,001	0.010		19.2	
1 835	-25	0.003	0.353	0.121	0.476	23.70	22.6	
1 1005	65	0.009	0.292	0.159	0.463		28.7	2+
1 1105	125	0.010	0.254	0.172	0.447	15.40	33.4	2.
1 1205	185	0.012	0.215	0.201	0.432	20,30	35.7	2.
1 1305	245	0.015	0.171	0,225	0.410	19.80	38 • 4	3.
1 1405	305	0.018	0.129	0.255	0.395	20.40	39.0	2.
1 1505	365	0.022	0.090	0.279	0.376	21.20	39.0	1.
1 1605	425	0.026	0.062	0.288	0.360	21.00	35.1	1.
2 805	1385	0.053	0.038	0.272	0.314	And size core Win 1991 1991	22.5	7 +
2 905	1445	0.071	0.033	0,240	0.298	20.60	27.7	2.
2 1005	1505	0.092	0.028	0.248	0.280		31.2	2.
2 1105	1565	0.134	0.020	0.232	0.250		33.5	3,
2 1205	1625	0.205	0.015	0.193	0.205		35.7	3.
2 1305	1685	0.328	0.012	0.115	0.124		37.9	3.
2 1405	1745	0,407	0.011	0.043	0.050		38.2	2.
2 1505	1805	0.397	0.011	0.020	0.028	15.80	34.5	2.
2 1605	1865	0.376	0.011	0.019	0.025	17.50	33.9	1.
3 805	2825	0.298	0.012	0.011	0.021	17.70	19.8	1.
3 905	2885	0.291	0.015	0.013	0.023	17.60	23.0	2.
3 1005	2945	0.279	0.011	0.011	0.022	18.00	27.1	2.
3 1105	3005	0.268	0.011	0.013	0.022	17.40	32.1	4.
3 1205	3065	0.255	0.013	0.017	0.029	17.80	35.3	4.
3 1305	3125	0.244	0.019	0.020	0.029	17.90	37.4	3.
3 1405	3185	0.236	0.019	0.015	0.029	17.80	38.3	3.
3 1505	3245	0.224	0.019	0.018	0.029	17.20	38.0	2.
3 1605	3305	0.215	0.019	0.011	0.029	15.40	34.0	1.
4 805	4265	0.156	0.019	0.010	0.024	14.90	19.9	٥.
4 905	4325	0.017	0.162	0.278	0.460	12.10	24.3	2.
4 1005	4385	0.018	0.141	0.285	0.449	11.80	28.3	2.
4 1105	4445	0.023	0.120	0.301	0.439	11.40	32.4	3.
4 1205	4505	0.033	0.091	0.319	0.422	11.90	35.6	2.
4 1305	4565	0.045	0.061	0.323	0,400	11.70	37.6	3.
4 1405	4625	0.063	0.041	0.339	0.379	11.10	38.6	2.
4 1505	4685	0.086	0.030	0.325	0.354	11.00	36.9	2.

----- NO DATA TAKEN

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M X-1 010 490 465 447 432 410 395	PPMC BK6800-1  23.70  19.40 20.30 19.80	DEG C DORIC-1 19.2 22.6 28.7 33.4	MW/CM2 EPPLEY-2	10E3/CC CNC-143	PART/CC CLIMET 2.	PART/CC CLIMET	PART/CC CLIMET
490 465 447 432 410 395	23.70  19.40 20.30	22.6 28.7			2.	^	_
490 465 447 432 410 395	19.40 20.30	22.6 28.7				V •	0.
465 447 432 410 395	19.40 20.30	28.7		14.9	0.	0.	0.
447 432 410 395	20.30		2.23	20.5	1.	0.	0 +
432 410 395	20.30	UU ( 7	2.68	14.5	16.	0.	٥.
410 395		35.7	2.73	10.5	123.	1.	٥.
395	4/104	38.4	3.69	8.3	273.	31.	0.
	20.40	39.0	2.73	6.2	363.	111.	1.
3/0	21.20	39.0	1.91	4.4	403.	189.	9.
360	21.00	35.1	1.18	3.2	419.	233.	22.
314		22.5	1.28	0.5	169.	124.	5.
298	20.60	27.7	2.18	0.3	273.	126.	8.
280		31.2	2.27	0.4	330.	163.	16.
250		33.5	3.55	0.5	338.	255.	31.
205		35.7	3.28	0.6	349.	292.	53.
124		37.9	3.55	4.2	420.	313.	89.
050		38.2	2.86	5.8	479.	362.	126.
028	15.80	36.5	2.00	4.4	481.	364,	124.
025	17.50	33.9	1.32	3.5	472.	344.	102.
021	17.70	19.8	1.32	4.9	99.	34.	0.
023	17.60	23.0	2.36	5.1	79.	34.	0.
022	18.00	27.1	2.45	3.7	84.	34.	0.
022	17.40	32.1	4.05	3.0	81.	42.	0.
029	17.80	35.3	4.45	2.8	320.	91.	2.
029	17.90	37.4	3.59	2.3	359.	137.	5.
029	17.80	38.3	3.00	1.9	369.	154.	7.
029	17.20	38.0	2.27	1.6	362.	148.	6.
029	15.40	34.0	1.28	1 . 4	367.	134.	5.
024	14.90	19.9	0.95	3.3	21.	8.	0.
460	12.10	24.3	2,23	3.3	13.	6.	٥.
449	11.80	28.3	2.32	2.7	150.	10.	0.
439	11.40	37.4	3.59	2.1	312.	76.	1.
422	11.90	35.6	2.91	1.8	381.	167.	8.
400	11.70	37.6	3.73	1.3	408.	206.	17.
379	11.10	38.6	2.68	1.0	418.	239.	27.
354	11.00	36.9	2.00	0.8	469.	266.	39.

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AFF-108 RJ5• 4-PAY STATIC 1981 JULY 28

	CLOCK TIME DY HR.	ELAFSED TIME (MIN)	BSCAT 10-4 M-1 MRI-388	AER.V UM3/CC TSI-023	AER·N PART/CC TSI-023	AER·S UM2/CC TSI-023	I-C5 PPM DMS-1	RJ-5(A) PPHC VAR 3700	RJ-5() PPM VAR 3
	1 705	-115	0.0	1.	910.	13.	0.0001		
	1 820	-40						1.110	1.4
	1 830	-30							
	1 835	-25	0.1	11.	9943.	169.		4 007	
	1 1005	65	4 • 1	27.	6.0E 04	1170.		1.227	1.6
	1 1105	125	6.8	29.	4.7E 04	1290.		1.259	1.6
	1 1200	180				4407			1.5
	1 1205	185	11.5	27,	4.1E 04	1187.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	1 1305	245	16.0	26+	3.4E 04	1115.		1.129	1.5
	1 1405	305	22.0	30.	2.9E 04	1097.		1.048	1.5
	1 1505	365	26.5	24.	2.2E 04	981.		1+0-10	
	1 1600 1 1605	420 425	29.0	21.	2.6E 04	839.	0.0002	1.184	1.5
	2 715	1 3 3 5					0.0001	succe drive selfs about most over	
	2 805	1385	3.6	3.	3831.	88.		1.421	1.8
	2 905	1445	5.8	4.	4372.	127.		1.637	1.9
	2 1005	1505	7.5	8.	4293.	181.		0.853	1.5
	2 1105	1565	8.2	5.	2730.	118.		1.326	1.5
	2 1200	1620							
	2 1205	1625	9.7	6.	3570.	166.			
	2 1305	1685	22.5	18.	1.5E 04	599.		1 217	1.6
٦	2 1405	1745	45.0	43.	2.8E 04	1339.		1.213 1.302	1.6
<u>п</u>	2 1505	1805	49.0	43.	2.8E 04	1297.		1.302	
•	2 1600	1860			4 05 04	40/4		0.886	1.1
	2 1605	1865 1875	42.0	32.	1.8E 04	1064.	0.0001	V+886	1+1
	2 1615	10/0					_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	3 715	2775			gars may and the state over		0.0001		
	3 730	2790					0.0001	par de au es de 70	
	3 805	2825	1.3	8.	1.2E 04	175.		1.457	1.8
	3 705	2885	2.1	9.	1.5E 04	347.		1.407	1.6
	3 1005	2945	4.7	14.	1.4E 04			1.207	1.5
	3 1105	3005	8.2	13.	1.2E 04	470.			1.5
	3 1200	3060			Later 4000 4000 4000 4000			A 564	
	3 1205	3025	13.5	14.	1.2E 04	491.		0.901	1 . 6
	3 1305	3125	14.5	13.	8743.	425.		1.468	1.6
	3 1405	3185	15.0	13.	8298.	412+		1.242	1.6
	3 1505	3245	14.0	10.	7385.	355.		1.316	
	3 1600 3 1605	3300 3305	11.0	9.	6821.	323.		1.443	1.0
		4235	and come from the come Top				made today great driver blank britter	w	
	4 735 4 805	4235 4265	0.2	7.	9286.	145.		1.243	1.7
	4 900	4320							
	4 905	4325	1.8	13.	1.3E 04	325.		0,988	1.3
	4 930	4350							
	4 1005	4385	6,2	12.	1.1E 04	408.		1.258	1.
	4 1105		12.5	18.	9969.	507.		0.726	1.0
	4 1200								
1	4 1205	4505	17.0	17.	8842.	500.			
1	4 1305		20.5	17.	8177.	471.		0.968	1.
(	4 1405		21.0	15.	7933.	434.		1.099	1.3

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I~C5 PPM	RJ-5(A) PPMC	RJ-5(B) PPMC	RJ-5(C) PPMC	FREON 12 RAW DATA	PAN PPM	HCHO PPM
15-1	VAR 3700	VAR 3700	VAR 3700	t-2Md	ECD-3	CA
.0001		place place upon salto sido sido			0.000	
	1.110	1.468	5.946	338.9		0.021
					0.000	0.021
					0.001	
	1.227	1.665	6.811 6.097		0.002	
	1.259	1.624	0.07/			0.006
		1.514	5.854		0.003	
					0.003	
	1.129	1.506	5.380		0.003	
	1.048	1,914	7.380		0.003	
	11010					0.048
.0002	1.184	1.538	5.539	357.9	0.004	
0001				368.6	-	
.0001	1.421	1.807	7.140	~~~~	0.000	0.021
	1.637	1.931	7.690		0.001	
	0.853	1.570	5.948		0.002	
	1.326	1.529	5.256		0.003	
						0.008
					0.003	
					0.005	
	1.213	1.642	4.646		0.004	
	1.302	1.496	4.844		0.004	
						0.067
	0.886	1.166	3.431		0.004	
.0001				283.6		
.0001				367.6		
.0001				357.4		
	1.457	1.840	5.693		0.000	0.050
	1.407	1.622	5.487		0.001	
	1.207	1.556	5.018		0.002	
		1.542	5.382		0.002	0.044
					0.003	0.044
	0.901	1+632	5.243		0.003	
	1.468	1.641	5.268		0.002	
	1.242	1.601	4.971 5.476		0.003	
	1.316	1.719	J+4/0			0.029
	1.443	1.609	4.953	238.6	0.003	
		~ <b>~ ~ ~ ~</b> ~		331.3		
	1.243	1.783	5.454	351.2	0.000	0.010
						0.006
	0.988	1.296	4.115	273.4 273.4	0.001	
	1.258	1.380	4,288	2/0+7	0.002	
	0.726	1.366	4.306		0.002	
	V+/20	1.000				0.006
					0.003	
	0.968	1.363	3.645		0.002	
					0.002	
	1.099	1.231	3.649		V+VV2	

AFF-108 RJ5, 4-DAY STATIC 1981 JULY 28

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	BSCAT 10-4 M-1 MRI-388	AER.U UM3/CC TSI-023	AER.N PART/CC TSI-023	AER.S UM2/CC TSI-023	I-C5 PPM DMS-1	RJ-5(A) PPHC VAR 3700	RJ-5 PF VAR
4 1500	4680		~		00's date ## sat 1981 and			~ -
4 1505	4685	19.0	28.	5848.	498.	W / / W	0.912	1.

----- NO DATA TAKEN

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1-05	8J-5(A)	RJ-5(B)	RJ-5(C)	FREON 12	PAN	нсно
PPM 1-03	PPMC	PEMC	PPMC	RAW DATA	PPM	หคห
	VAR 3700	VAR 3700	VAR 3700	DMS-1	ECD-3	CÁ
DMS-1	VHV 27.00			AL 24 St. St. W. W.	was done had not now you	0.008
	A 012	1.201	7.421	261.1	0.002	~

C 3

AFF-108 RJ5, 4-DAY STATIC 1981 JULY 28

1	CLOCK		PART.024	PART.042			PART.237		PART.750
	TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
Đ	Y HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
1	705	-115	501.	174.	222.	0.	0.	13.	0.
1	835	-25	668.	7917.	932.	362.	12.	7.	46.
	1005	65	1336.	2.0E 04	3.2E 04	6290.	221.	80.	32.
	1105	125	1169.	6090.	2.BE 04	1.1E 04	492.	53.	14.
	1205	185	668.	4263.	2.6E 04	9592.	676.	40.	14.
	1305	245	2839.	87.	1.9E 04	1.1E 04	590.	60.	7.
	1405	305	2839.	348.	1.3E 04	1.2E 04	738.	67.	21.
	1505	365	334.	87.	8880.	1.2E 04	873.	7.	4.
1	1605	425	334.	<b>596.</b>	1.7E 04	6844.	603.	27.	14.
	805	1385	2338.	174.	266.	1012.	٥.	40.	0.
2	905	1445	2338.	609.	133.	1060.	185.	47.	0.
2	1005	1505	2672.	261.	-133.	988.	418.	87.	٥.
2	1105	1565	1336.	-348.	444.	1012.	344.	-80.	21.
2	1295	1625	1336.	261.	311.	1253.	369.	40.	0.
	1305	1685	167.	174.	7282.	6748.	172.	47.	21.
2	1405	1745	2171.	1131.	8658.	1.4E 04	1488.	133.	35.
2	1505	1805	6179.	174.	6127.	1.3E 04	1759.	73.	46.
2	1605	1865	-668.	1653.	3952.	1.2E 04	1363.	153.	4.
3	805	2825	4509.	3915.	2797.	337.	135.	40.	18.
3	905	2885	1503.	2784.	8214.	2073.	197.	27.	11.
3	1005	2945	1336.	957.	7992.	3663.	332.	47.	14.
3	1105	3005	1336.	87.	5639.	5061.	234.	47.	11.
3	1205	3065	1336.	957.	4040.	5374.	394.	67.	4.
3	1305	3125	334.	-609.	3996.	4603.	381.	27.	11.
3	1405	3185	1002.	-261.	2575.	4483.	455.	33.	11.
3	1505	3245	835.	174.	1909.	3952.	504.	7.	4.
3	1605	3305	1336.	-435.	2176.	3229.	455.	67.	-7.
4	805	4265	3173.	3828.	2042.	48.	111.	73.	11.
4	905	4325	3006.	2001.	5905.	2169.	234.	-80.	49.
4	1005	4385	835.	261.	5150.	4217.	258.	27.	11.
	1105	4445	167.	1305.	2575.	5302.	578.	13.	28.
	1205	4505	167.	87.	2220.	5880.	443.	20.	25.
	1305	4565	1169.	87.	1110.	5133.	640.	13.	25.
	1405	4625	1503.	87.	1021.	4627.	664.	13.	18.
	1505	4685	668.	87.	222.	4169.	627.	13.	81.

---- NO DATA TAKEN

AFF-109 PURE AIR PHOTOLYSIS 1981 AUGUST 3

0715: BEGIN FILL. WET: 6.0 DRY:0.0 WET BULB: 16.0

DRY BULB: 28.5 R.H.=25% DEW PT.=6.6

0825: END FILL.

0900: UNCOVER BAG (T=0).

0905: WEATHER: SUNNY, CLEAR, WARM.

1410: END RUN.

RESULTS: OZONE FORMATION RATE = 12.6 PFB/HR

T=0 AT 900 PST

23 USED BAG NO.

ID INST. AVERAGE S.DEV UNITS VALUE DORIC-1 30.6 7.1 DEG C

UV RAD EPPLEY-2 2.66 0.29 MW/CM2

#### INSTRUMENTS USED

DESCRIPTION ID LABEL 1790 D-1790 DASIRI 1790 OZONE MONITOR 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 DORIC TEMPERATURE INDICATOR, SN 61479 1800 DORIC-1 4000 ECD-3 AF-LAB; 12" 5% CARBOWAX-600 GC; ECD 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG 4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030 4350 CLIMET CLIMET 208 OPTICAL PART. CTR;SN:76-148 4400 MRI-388 MRI INTEGRATING NEPHELOMETER MD:15508 ENV ONE RICH100 CONDENS NUCLEI CTR\$SN143 4200 CNC-143 2200 BMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2100 PN-1 RM-121 POROPAK-N GC; FID CHROMOTROPIC ACID HCHO ANALYSIS 3000 CA 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	OZONE PPM D-1790	NO PPM B-NOX-1	NO2-UNC FPM B-NOX-1	NOX-UNC PPM B-NOX-1	T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	CONDI 10E3 CNC-
1 830	-30	0.000	0.000	0.000	0.000	26+2		0
1 905	5	0.000	0.000	0.000	0.000	26.8	2.45	0
1 935	35	0.005						
1 1005	65	0.011			*** *** *** *** ***	***		
1 1035	95	0.016			400 400 400 Pet 400			
1 1105	125	0.023	That have seen asses which have	-				
1 1135	155	0.031						
1 1205	185	0,038						
1 1235	215	0.046	eren mens same place admit same					
1 1305	245	0.053			cases well appeal times south table			
1 1335	275	0.058			-			
1 1405	305	0.064	0.000	0.003	0.001	38.7	2.86	14

NO DATA TAKEN

6.0

30 2

143

FID

	T DEG C	UV RAD MW/CM2	CONDENS 10E3/CC	#PART>.3 PART/CC	#PART>.5 PART/CC	#PART>1 PART/CC	BSCAT 10-4 M-1
Ĺ	DORIC-1	EPPLEY-2	CNC-143	CLIMET	CLIMET	CLIMET	MRI-388
)	26.2		0.0	٥.	0.	0.	0.1
)	26.8	2,45	0.1	0.	0.	٥.	0.1
-							
-	*** *** *** *** ***						
-		~~~~	****				
-							
	*** *** *** *** ***						
<del></del>			~ ~	*** *** *** *** ***			***************************************
-		-		***************************************			1985 1888 000y nine nine yang
-							~~ ~~ ~~ ~~ ~~
-							
Ĺ	38.7	2.86	14.8	0.	0.	٥.	2.2

AFF-109 PURE AIR PHOTOLYSIS 1981 AUGUST 3

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	AER.V UM3/CC TSI-023	AER.N PART/CC TSI-023	AER.S UM2/CC TSI-023	METHANE PPM PN-1	ETHENE PPM PN-1	ETHANE PPM PN-1	ACETYI PPM PN-
1 830	-30	5.	831.	59.	1.83	0.0028	0.0117	0.00
1 905	5	2.	678.	23,				~ ~ ~ ~ ~
1 1405	305	19.	5.9E 04	855.	seer may risk stell lain suga	THE NAME AND ADDRESS OF		
CLOCK	ELAPSED	N-C4	1-04=	I-C4=	I-C5	RJ-5(A)	RJ~5(B)	RJ-5(:
TIME	TIME	PPM	PPM	PPM	PPM	PPMC	PPMC	PPM
DY HR.	(MIN)	DMS-1	DMS-1	DMS-1	DMS-1	VAR 3700	VAR 3700	VAR 3
1 830	-30	0.0007	0.0001	0.0001	0.0001	3.3E 04	7.9E 04	1.8E
1 905	5							
1 910	10							
1 1400	300						~	
1 1405	305					***************************************		
01.00%	PT   A P. D PT T.	Pro A Pro Train Co. A Pro	DABY 435	5 4 5 T 4 7 T	PLAN TO TO THE TOTAL	DADT ADD	DADT TEA	
CLOCK	ELAPSED	FART - 042	PART . 075	PART.133	PART 237	PART - 422	PART.750	
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	
1 830	-30	609.	-577.	217.	37.	27.	18.	
1 905	5	435.	-178.	48.	25.	7.	7.	
1 1405	305	1.5E 04	2.7E 04	2964.	221.	27.	28.	

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NE 1	ETHENE PPM PN-1	ETHANE PPM PN-1	ACETYLEN PPM PN-1	ACETYLEN PPM DMS-1	PROPANE PPM DMS-1	PROPENE PPM DMS-1	I-C4 PPM DMS-1
3	0.0028	0.0117	0.0033	0.0034	0.0036	0.0003	0.0014
	AL LE		code by the con code and	there gard differ that does to the			
5 1	RJ-5(A) PPMC VAR 3700	RJ-5(B) PPMC VAR 3700	RJ-5(C) PPMC VAR 3700	PAN PPM ECD-3	HCHO PPM CA	RT=42.56 RAW DATA VAR 3700	PART.024 PART/CC TSI-023
01	3.3E 04	7.9E 04	1.8E 05	0.003	0.004	2.3E 04	501. 334.  1.4E 04
237 CC 23	PART.422 PART/CC TSI-023 27. 7. 27.	PART.750 PART/CC TSI-023 18. 7. 28.					

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ID

NO2-UNC

NO2-UNC

NO

NO

THC

THC

INST.

B-NOX-1

B-NOX-1

B-NOX-1

B-NOX-1

BK6800-1

BK6800-1 10.60

INITIAL

CONC.

0.348

0.159

0.152

0.055

9.53

UNITS

PPM

PPM

PPM

PPM

PPMC

**PPMC** 

SIDE 1

SIDE 2

SIDE 1

SIDE 2

SIDE 1

SIDE 2

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AFF-110
RJ-5, VARIABLE NOX
1981 AUGUST 4
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DAY 1
        (AUGUST 4)
  0500: START FILL. NET: 6.0 DRY: 0.0 WET BULB: 12.4
        DRY BULB: 20.5 DEW PT.=5.3
                                      R.H.=38%
  0610: END FILL.
  0626: INJECTED 540 MICROLITERS OF RJ-5 AT 250 DEGREES C FOR 30 MIN.
  0700: MIX BAG, DIVIDE BAG.
  0716: INJECTED 2.5 ML. NO2 INTO SIDE A.
  0718: INJECTED 9.0 ML. NO INTO SIDE A.
  0726: INJECTED 1.25 ML. NO2 INTO SIDE B.
  0728: INJECTED 4.5 ML. NO INTO SIDE B.
  0730: MIX SIDE A; MIX SIDE B.
  0900: UNCOVER BAG (T=0).
  0905: WEATHER: SUNNY, CLEAR, WARM, SLIGHT BREEZE.
  1630: BAG COVERED.
DAY 2
        (AUGUST 5)
  0900: UNCOVER BAG, DAY 2.
  0905: WEATHER: SUNNY AND CLEAR.
  1520: SAMPLING ENDED, RUN OVER.
RESULTS
                      DAY 1
                                           DAY 2
----
                      ____
                                           38(+-4)
AVG.T(DEG.C)
                      37(+-2)
AVG.UV(MW/CM2)
                      2.8(+-1.0)
                                           2.9(+-0.7)
T=0 AT 900 PST
          23 USED
BAG NO.
  ID
           INST.
                  AVERAGE
                            S.DEV
                                    UNITS
                   VALUE
T
         DORIC-1
                   34.5
                            6.7
                                      DEG C
                                              SIDE 1
                            5.9
                                      DEG C
                                              SIDE 2
T
         DORIC-1
                   34.9
UV RAD
                                     MW/CM2
         EPPLEY-2
                   2.86
                           0.88
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AFF-110 RJ-5, VARIABLE NOX 1981 AUGUST 4

INSTRUMENTS USED

# RATE ID LABEL DESCRIPTION (ML/MIN) 2200 DMS-1 RM-121; DIMETHYLSULFULANE GC; FID 2100 PN-1 RM-121 FOROPAK-N GC; FID 1790 D-1790 DASIBI 1790 OZONE MONITOR 4600 B-NOX-1 BENDIX B101BX NOX ANALYZER; SN300038-2

SAMPLING

4600 B-NOX-1 BENDIX B101BX NOX ANALYZER; SN30003B-2
1800 DORIC-1 BORIC TEMPERATURE INDICATOR, SN 61479
4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG
4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030
4350 CLIMET CLIMET 208 OPTICAL PART, CTR; SN:76-148
4400 MRI-388 MRI INTEGRATING NEPHELOMETER MD:1550B
4200 CNC-143 ENV ONE RICH100 CONDENS NUCLEI CTR; SN143
3000 CA CHROMOTROPIC ACID HCHO ANALYSIS
4850 BK6800-1 BECKHAN CO, HC ANALYZER SN:100015B

4000 ECD-3 AF-LAB; 12" 5% CARBOWAX-600 GC; ECD 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID

AFF-110 RJ-5, VARIABLE NUX 1981 AUGUST 4

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	OZONE	OZONE	МО	NO	NO2-UNC	NO2-UNC	NOX-
TIME	TIME	PPM	PPM	PPM	PPM	PPM	PPM	PP
DY HR.	(MIN)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	B-N0
1 605	-175	0.000	0.000	0.000	0.000	0.000	0.000	0.
1 835	-25	0.003		0.348		0.152	***************	0.
1 845	-15		0.003		0.159		0.055	
1 1005	<b>6</b> 5	0.010		0,299		0.181		0.
1 1015	75		0.008	make their take that you use	0.180		0,080	
1 1105	125	0.011	-	0.260		0.203		0.
J 1115	135	***	0.011		0.102		0.099	
1 1205	185	0.011	and the south south degree agery	0.222		0.232		٥.
1 1215	195		0.017		0.078		0.120	
1 1305	245	0.008		0.179		0.250		0.
1 1315	255		0.023		0.050		0.138	
1 1405	305	0.017		0.140		0.281		0.
1 1415	315		0.035		0.031		0.148	
1 1505	365	0.019		0.111		0.301		0.
1 1515	375		0.051		0.020		0.149	
1 1605	425	0.021		0.989		0.311		0.
1 1615	435		0.066		0.013		0.145	
2 835	1415	0.005	and after pass forth and, pass	0.049	27-4 2740 steak 1690 steak 6400	0.342	AT 100 THE THE SEC SEC	٥.
2 845	1425		0.004		0.001		0.079	
2 1005	1505	0.043		0.057		0.316	~~~~	0.
2 1015	1515		0.052		0.014		0.063	
2 1105	1565	0.061		0.041		0.312		0.
2 1115	1575	~ ~ ~ ~ ~ ~	0.084		0.008		0.059	
2 1205	1625	0.088		0.028		0.308		٥.
2 1215	1635	**** \$500 /500 000 000 000	0.130		0.002		0.050	
2 1305	1685	0.134		0.016		0.290	~	0.
2 1315	1495	*** *** *** *** *** **	0.180		0.003		0.035	
2 1405	1745	0,212		0.008		0.242		0.
2 1415	1755		0.204		0.001		0.020	
2 1505	1805	0.317		0.007		0.172		٥.
2 1515	1815	**** **** **** **** ****	0.203		0.004		0.016	

2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	
b	NO2-UNC	NO2-UNC	NOX-UNC	NOX-UNC	THC	THC	
1	PPM	PPM	PPM	PPM	PPMC	PPMC	
K-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	BK6800-1	BK6800-1	
000	0.000	0.000	0.000	0.000	3.39	3.39	
	0.152		0.482		9.53		
59		0.055		0.201		10.60	
	0.181		0.470		10.10		
50		0.080		0.207		10.00	
	0.203		0.483		10.10		
102		0.099		0.200		10.70	
	0.232		0.469		11.00		
)78		0.120		0.195		10.60	
	0.250		0.455		9.70		
0 <b>50</b>		0.138		√.187		10.30	
	0.281		0.442		10.60		
b31		0.148	***	0.175		11.00	
	0.301		0.425		10.60		
ð20		0.149		0.168		11.60	
	0.311		0.410		10.60		
013		0.145		0.155		10.80	
	0.342		0.399	~ ~ ~ ~	B		
001		0.079		0.080		]	В
	0.316		0.380				
014		0.063		0.075			
	0.312		0.359	~ ~ ~ ~			
800		0.059		0.065			
	0.308		0.338				
002		0.050		0.052			
	0.290		0.304				
003		0.035		0.037			
	0.242		0.251		10.60		
001		0.020		0.021	6 6** 100 100	10.70	
	0.172		0.178		9.90		
004	seals total point sport terms which	0.016	,,, m	0.018		11.00	

AFF-110 RJ-5, VARIABLE NOX 1981 AUGUST 4

CLOCK TIME	ELAPSED TIME	SIDE 1 T DEG C	SIDE 2 T DEG C	UV RAD MW/CM2	SIDE 1 CONDENS 10E3/CC	SIDE 2 CONDENS 10E3/CC	SIDE 1 #PART>.3 PART/CC	SII #PAF PART
DY HR.	(MTN)	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC-143	CLIMET	CF1
1 605	-175	18.5	18.5		0.6	0.6	3.	
1 835	-25	26.3			11.0		Q.	
1 845	-15		28.1			10.0		
1 1005	65	30.5		1.91	11.0		0.	
1 1015	75		33.4	2.66		11.5		
i 1105	125	35.2		4.09	9.5		28.	
1 1115	135		36.5	4.05		8.9		
1 1205	185	38.1		3.37	7.5		170.	
1 1215	195		37.7	4.14	** ** **	7.8		7
1 1305	245	39.3		3.59	5.9		309.	· · · · ·
1 1315	255		39.2	3.50		6.0		21
1 1405	305	39.4		2.77	4.6		374.	
1 1415	315		38.2	2.73		4.8		32
1 1505	365	38.5		2.00	3.5		404.	
1 1515	375		37.4	1.82		3.9		37
1 1605	425	36.3		1.28	2.7		415.	
1 1615	435		35.7	1.28		3.0		39
2 835	1415	25.5			0.0		133.	··· ··· ··
2 845	1425		27.2		** ** ** ** ***	0.0		24
2 1005	1505	29.6		2.00	0.1		224.	
2 1015	1515		31.7	2.73		0.0		20
2 1105	1565	33.8		3.82	0.2		354.	
2 1115	1575		35.8	3.73		0.2		24
2 1205	1625	37.7		3.09	0.3		341.	
2 1215	1635		37.9	3.64		1.5		31
2 1305	1685	40.0		3.28	0.3		292.	
2 1315	1695		40.3	3.28	~ ~ ~ ~ ~ ~ ~	4 . 4		38
2 1405	1745	42.6		3.19	0.1		271.	
2 1415	1755	···	41.0	3:00		4.1	~ ~ ~ ~ ~ ~ ~ ~ ~	42
2 1505	1805	41.0		1.87	2.8		395.	
2 1515	1815		39.3	1.68		3.5		42

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1 NS CC 43	SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 *PART>.3 PART/CC CLIMET	SIBE 2 *PART>.3 PART/CC CLIMET	SIDE 1 *PART>.5 PART/CC CLIMET	SIBE 2 *PART>.5 PART/CC CLIMET	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 #PART>1 PART/CC CLIMET
6 0 0 5 5 - 9 - 6 - 5 - 7	0.3 10.0 11.5 8.9 7.8  4.8 	3. 0. 28. 170. 309. 374. 404.	3. 0. 0. 3. 71. 216. 320. 371.	0. 0.  0.  5.  131. 193.  220.	0.  0.  0.  12.  65.  178.	0. 0. 0. 0.  0.  10.  18.	0.  0.  0.  2.
0.0	3.0  0.0  0.2  1.5  4.4 	133. 224. 354. 341. 292.	395. 243. 206. 245. 314. 388. 420.	12. 100. 141. 214. 289. 238.	42. 171. 175. 182. 234.	0. 3. 8.  19.  42.  58. 	0. 5. 12. 19. 40.
2.8	3.5	395. 	426.	204+	259.		46.

524

AFF-110 RJ-5, VARIABLE NOX 1981 AUGUST 4

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 BSCAT 10-4 M-1 MRI-388	SIDE 2 BSCAT 10-4 M-1 MRI-388	SIDE 1 AER.V UM3/CC TSI023	SIDE 2 AER.V UM3/CC TSI-023	SIDE 1 AER.N PART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SI AE UM TSI
1 605	-175	0.0	0.0	1.	1.	2547.	2547.	
1 740	-80				tions about their order neces			
1 835	-25	0.0		6.		2.0E 04		1
1 845	-15		0.0		2.		1.5E 04	
1 1005	65 75	3.5		22.		5.0E 04		7
1 1015	75 125		2.5		25.		3.9E 04	
1 1105 1 1115	125 135	6.2	4.8	42.		4.6E 04		9
1 1205	135 185	10.0	4 • 8	22.	24.	4.0E 04	3.3E 04	
1 1205	195	10.0	9.0	<i>44</i> •	34.	4.0E 04	3.1E 04	8
1 1305	245	17.0	7 • 0	30.	34.	3.6E 04	3+1E V4	9
1 1315	255		12.5	30+	29.	3+06 04	2.8E 04	
1 1405	305	22.0	12+3	26.	7 +	3.3E 04	2+0E V4	8
1 1415	315		17.0		22.	3136 07	2.8E 04	
1 1505	365	21.0		35.		2.8E 04	Z+0L V4	8
1 1515	375		20.0		28.		2.4E 04	
1 1605	425	26.0		27.		2.5E 04		7
1 1615	435		23.5		28.		2.1E 04	
2 715	1335		*			***		
2 815	1395							•••
2 835	1415	1.9		4.		4748.		
2 845	1425		4.1		7.	****	3585.	
2 1005	1505	5.0		3.		4382.		
2 1015	1515		4.2		5.		2905.	
2 1105	1565	7.4		11.		5784.		1
2 1115	1575		5.2		5.		3413.	
2 1205	1625	7.6		7.		5091.		1
2 1215	1635		8.0		7.		8578,	
2 1305	1685	7.2		6.		3956.		1
2 1315	1695		15.0		12.		2.6E 04	
2 1405	1745	8.0		10.		5730.		1
2 1415	1755		21.0		23.		2.8E 04	
2 1505	1805	20.0		18.		2.3E 04		5
2 1515	1815		22.0		26.		2+6E 04	***

NO DATA TAKEN

SIDE 1	SIDE 2	SIDE 1	SIDE 2 AER.S	SIDE 1 RJ-5(A)	SIDE 2 RJ-5(A)	
AER N	AER • N	AER+S	UM2/CC	PPMC	PPMC	
PART/CC	PART/CC	UM2/CC	TSI-023	VAR 3700	VAR 3700	
TSI-023	TSI-023	TSI-023	151-025	VAIC 0700	*****	
2547.	2547.	19.	19.			
				0.472		
2.0E 04		161.				
	1.5E 04		74.		0.556	
5.0E 04		798.		0.620	pain many start than 1860 1880	
	3.9E 04	year, may mine their bell bell	690.			
4.6E 04		949.				
	3.3E 04		739.		0.611	
4.0E 04		843.		0.769		
	3.1E 04		977.			
3.6E 04		916.				
	2.8E 04		796.		0.862	
3.3E 04		864.				
	2.8E 04		731.			
2.8E 04		866.	~~~~~	0.623		
	2.4E 04		741.			
2.5E 04		746.				
	2.1E 04		687.		0.834	
			most other resist under the state	0.822		
					0.513 A	
4748.		78.				
	3585.		101.			
4382.		96.		0.817		
	2905.		102.			
5784.		173.				
	3413.		97.		0.823	
5091.		153.				
50711	8578.		175.			
3956.		132.				
J/JU+	2.6E 04		397.		0.615	
5730.	Z+0L V+	167.		0.728		
3/30+	2.8E 04		581.			
2.3E 04	Z+0L 07	505.				
2.35 04	2.6E 04		597.		0.576	
	~ + ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		• • •			

			SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SI
(	CLOCK	ELAPSED	RJ-5(B)	RJ-5(B)	RJ-5(C)	RJ-5(C)	PAN	PAN	HI
	TIME	TIME	PPMC	PPMC	PPMC	PPMC	PPM	PPM	PI
DY	HR.	(MIN)	VAR 3700	VAR 3700	VAR 3700	VAR 3700	ECD-3	ECD-3	1
									·
1	605	-175	0.089	0.089	0.098	0.098	0.000	0.000	
1	740	-80	0.887	-	3,258				<b></b> ·
1	810	-50				~			0.
1	835	-25							
1	845	-15		1.064		4.216	****	0.000	
1	1005	65	1.134		4.630		0.001		
1	1015	75				and the same and total free		0.000	
1	1105	125					0.001		
1	1115	135		1.185		4,604	V+VVI	0.000	
	1200	180		1.100		7+007			0
	1205	185	1.044	Name 2014 4404 4404 4705 4804	3.965		0.001		
	1215	195	1+047		3 + 703		0.001	0.001	
	1305	245						0.001	
	1315	255		1 100		A / / /	0.001		
	1405	200 305		1.190		4.666		0.000	
							0.001		
	1415	315						0.000	
	1505	365	1.304		4.654		0.000		
	1515	375						0.000	
	1605	425					0.000		
	1610	430				half from this cole come date.			0.
1	1615	435		1.177		4.471		0.000	
2	715	1335	0.990		3,707		***************************************		
2	810	1390							0 (
2	815	1395		1.090 A		3.784 A			
2	835	1415					0.000		
2	845	1425					****	0.000	
2	1005	1505	1.142	a a a	3.959		0.000		
	1015	1515						0.000	
2	1105	1565					0.002		
2	1115	1575		1.121		4.040		0.001	
2	1200	1620							٥,
2	1205	1625			*** *** *** *** ***		0.001		
2	1215	1635						0.000	
	1305	1685					0.001		*** *** **
	1315	1695		1.288		4.037		0.000	
	1405	1745	0.974		3.135		0.002		
	1415	1755						0.000	
	1505	1805				***************************************	0.002		
	1510	1810				PT 400 500 5EL 100 5E.			٥,
	1515	1815	100k 600m 600m 0000 alau nake	1.108		3.752		0.001	
-				T + T A C		U T / U &		A 1 A A T	

SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
PAN	PAN PPM	HCHO	HCHO	PART + 024	PART - 024
PPM		PPM	PPM	PART/CC	PART/CC
ECD-3	ECD-3	CA	CA	TSI-023	TSI-023
0.000	0.000	tors with more than the same		2505.	2505.
and that mus this saw man					
		0.002	0.002		
				1.5E 04	
	0.000			~	1.1E 04
0.001		***************************************		3.1E 04	
	0.000				2.0E 04
0.001				3.0E 04	
	0.000				1.6E 04
		0.006	0.004		
0.001		***************************************		2:2E 04	
	0.001				1.2E 04
0.001				1.7E 04	
	0.000	***************************************	***************************************		1.0E 04
0.001				1.7E 04	*** *** *** *** ***
	0.000				1.2E 04
0.000				1.8E 04	
	0.000				1.4E 04
0.000				1.7E 04	
		0.004	0.006		
	0.000				1.2E 04
		0.015	0.008		
0.000				4008.	
	0.000				2839.
0.000				2672.	
	0.000				2171.
0.002				4342.	
	0.001				1837.
		0.008	0.000		
0.001				4008.	
	0.000				6012.
0.001				3006.	
· · · · · · · · · · · · · · · · · · ·	0.000				1.8E 04
0.002				4175.	
	0.000			union andre cocce column qualità column	1.5E 04
0.002				1.4E 04	
		800.0	0.004		
	0.001		***************************************		1.7E 04

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SII
CLOCK	ELAPSED	PART.042	PART.042	PART.075	PART.075	PART - 133	PART.133	PART
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-
1 605	-175	0.	٥.	-44.	-44.	٥.	0.	8
1 835	-25	2088.		2176.		482.		2
1 845	-15		2436.		1288.		24.	
1 1005	65	957.		1.2E 04		5784.		66
1 1015	75		3219.		1.1E 04		4314.	
1 1105	125	174.	white black drawn cutoff state descrip	8170.	6/4 ffm Aun 100 mm	6435.		46
1 1115	135		1827.		8836.		5688.	
1 1205	185	435.		8036.		8772.		64
1 1215	195		1218.		1.1E 04	2701 2000 tase maps tase com	3446.	
1 1305	245	1479.		7592.		9158.		38
1 1315	255		1566.	ries bett blue open mass were	8969.		4848.	
1 1405	305	522.		5639.		8748.		98
1 1415	315		957.		6971.		7206.	
1 1505	365	435.		1643.	****	6579.		158
1 1513	375		435,		1865.		6459.	
1 1605	425	-957.		1376.		5953.		158
1 1615	435		261.		1421.		6507.	
2 835	1415	435.		0.		193,		1
2 845	1425	***************************************	174.		44.		386.	
2 1005	1505	435.		444.	_ ~ ~ ~	482.		36
2 1015	1515		-87.		266.		193.	
2 1105	1565	87.		533.		410.		34
2 1115	1575		435.	wird over their page name have	710.		217.	
2 1205	1625	-87.		178.		554.		34
2 1215	1635		261.		735.		1301.	
2 1305	1685	-87.	**** *** *** *** ***	178.		482.	****	3(
2 1315	1695		609.		4129.		3326.	
2 1405	1745	348.		444.		337.		34
2 1415	1755		2175.		5461.		4338.	
2 1505	1805	-435.		3818.		4073.		55
2 1515	1815		1044.		2975.		4097.	

1

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3

SIDE 1 PART.133 PART/CC TSI-023	SIDE 2 FART.133 PART/CC TSI-023	SIDE 1 PART.237 PART/CC TSI-023	SIDE 2 PART.237 PART/CC TSI-023	SIDE 1 PART.422 PART/CC TSI-023	SIDE 2 PART.422 PART/CC TSI-023
0. 482.	0. 	86. 25.	86. 0.	0. 73.	0. 7.
5784. 6435.	4314.	664.	455.	93.  220.	87.
8772. 9158.	5688.  3446.	640.	689. 2460.	73.	113.
8748.	6868.  7206.	984.	566.  517.	60.	53.  93.
6579.  5953. 	6459. 	1587. 1587.	1119.	127.	113.
193.  482.	386.	12.  369.	61.	100.	67.
410.	193. 217.	344.	344.  160.	40.	7.  47.
482.	1301.	344.  308.	172.	93.  67.	73.
337.  4073.	4338, 	344. 590.	517.	60. 73.	47. 

AFF-110 RJ-5, VARIABLE NOX 1981 AUGUST 4

		SIDE 1	SIDE 2
CLOCK	ELAPSED	PART.750	PART.750
TIME	TIME	PART/CC	PART/CC
DY HR.	(MIM)	TSI-023	TSI-023
1 605	-175	0.	0.
1 835	-25	7.	***
1 845	-15		7.
1 1005	65	18.	
1 1015	75		46.
1 1105	125	84.	~~~~~
1 1115	135		25.
1 1205	185	11.	
1 1215	195		18.
1 1305	245	39.	
1 1315	255		56.
1 1405	305	21.	
1 1415	315		21.
1 1505	365	49.	
1 1515	375		35.
1 1605	425	18.	
1 1615	435		53.
2 835	1415	0.	
2 845	1425		14.
2 1005	1505	0.	
2 1015	1515		11.
2 1005 2 1015 2 1105 2 1115	1565	28.	
2 1115	1575		7.
2 1205	1625	0.	
2 1215	1635		4.
2 1305	1685	4.	
2 1315	1695		18.
2 1205 2 1215 2 1305 2 1315 2 1405 2 1415	1745	21.	
	1755		49.
2 1505	1805	25.	
2 1515	1815		56.

### NOTES

- A PRESSURE REGULATING COLUMN FLOW WAS HIGH, CHANGING RETENTION TIMES.
- B BECKMAN WAS OFF DURING THE SECOND DAY FROM 0835 TO 1315.

PPM

PPM

PPM

PPMC

PPMC

SIDE 2

SIDE 1

SIDE 2

SIDE 1

SIDE 2

528

NO

THC

THC

NO2-UNC

B-NOX-1

B-NOX-1

B-NOX-1

BK6800-1 19.70

BK6800-1 13.00

0.367

0.108

0.111

AFF-111 RJ-5, VARIABLE FUEL 1981 AUGUST 6,7

# INSTRUMENTS USED

SAMPLING RATE

			KMIL
ID	LABEL	DESCRIPTION	(ML/MIN)
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4131	EPFLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OPTICAL PART, CTR; SN: 76-148	
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN143	
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID	l
2300	FN-1	RM-121 POROPAK-N GC; FID	
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN: 100015D	
4000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 GC; ECD	

CLOCK TIME	ELAPSED TIME	SIDE 1 OZONE PPM	SIDE 2 OZOKE PPN	SIDE 1 NO PPM	SIDE 2 NO PPM	SIDE 1 NO2-UNC PPH	SIDE 2 NO2-UNC PPM	SI XOX P
DY HR.	(MIM)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	B-N
1 605	-175	0.002	0.002	0.001	0.001	0.000	0.000	0
1 835	-25	0.005		0.362		0.108		0
1 645	-15		0.001		0.367		0.111	
1 1005	65	0.009		0.281		0.159		0
1 1015	75		0.005		0.288		0.160	
1 1105	125	0.011		0.215		0.200		0
J 1115	135		0.008		0.233		0.197	
1 1205	185	0.019		0.140		0.250		0
1 1215	195		0.011		0.177		0.234	
1 1305	245	0.036		0.072		0.302		0
1 1315	255	time card man color blos com	0.013		0.121		0.276	
1 1405	305	0.078		0.629		0.311	*** *** *** *** ***	0
1 1415	315		0.020		0.078		0.305	
1 1505	365	0.158		0.010		0.265	· ·	0
1 1515	375		0.036		0.050		0.319	
1 1605	425	0.270		0.005		0,159	***************************************	0
1 1615	435		0.040		0.029		0.324	
2 835	1415	0.135	~~ ~~ ~~ ~~ ~~ ~~	0.008		0.012	alter and have made spice than	0
2 845	1425		0.009		0.009		0.280	
2 1005	1505	0.130		0.008		0.012		0
2 1015	1515		0,096		0.029		0.235	
2 1105	1565	0.130	TP-0 LD UND 5000 5000 0000	0.008		0.013		0
2 1115	1575		0.150		0.029		0.215	
2 1205	1625	0.132		0.009		0.019		0
2 1215	1635	***	0.254		0.010		0.165	
2 1305	1685	0.133	*	0.004	*** *** *** *** ***	0.018	~~~~~	0
2 1315	1695		0.375		0.009		0.089	
2 1405	1745	0.134		0.005		0.018		0
2 1415	1755		0.409	part shift late at on 1800 with	0.009		0.035	
2 1505	1805	0.131		0.005		0.015		0
2 1515	1815		0.387		0.008		0.020	

E :	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
0	NO2-UNC	NO2-UNC	NOX-UNC	HOX-UNC	THC	THC
M	FPM	PPM	PPM	FPM	PPMC	PPMC
X-1	B-N0X-1	B-NOX-1	B-NOX-1	BNOX1	BK6800-1	BK6800-1
001	0.000	0.000	0.001	0.001	3.30	3.30
	0.108		0.476		15.80 B	
367		0.111		0.489		11.40 B
	0.159		0.453		19.70	
288	~~~~~~~	0.160		0.461		13.00
	0.200		0.436		19.80	
233		0.197	* *	0.450		12.00
	0.250		0.408		19.00	
177		0.234		0.431		12.20
~	0.302		0.382		20.20	
121	THE PERSON NAMED IN	0 276		0.412		11.80
	0.311		0.342		19.70	
078		0.305		0.392		10.80
	0.265		0.280		17.70	
950		0.319		0.376		10.90
	0.159	100 and 300 kip (m. s.p.	0.167		17.20	
02 <b>9</b>		0.324		0.358		11.50
	0.012		0.019	food food Guide State stree state.	14.90	
009		0.280		0.289		10.70
C7 800 600	0.012		0.019		15.70	
029	more there have been dear about	0.235	-	0.260		10.60
	0.013		0.020		16.40	
029	their least total more spin, then	0.215		0.228		10.60
	0.017	-	0.021		16.00	
010		0.165		0.175		10,40
	0.018		0.021		16.60	
009		0.089	** ** ** ** **	0.091		10.00
	0.018		0.021		17.20	
09		0.035	-	0.041		10.00
* ** **	0.015		0.020	Proc Park No., and and plot	16.70	
80(		0.020		0.025		9.83

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 T DEG C DORIC-1	SIDE 2 T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	SIDE 1 CONDENS 10E3/CC CNC-143	SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 #PART>.3 PART/CC CLIMET	SI #PA PAR CL
1 605	-175	20.0	30.0	new creek state talke hale him	0.0	0.0	1.	
1 835	-25	27.8			13.2		0.	***
1 845	-15		29.1			22.0		
1 1005	65	32.4		2.00	12.2		71.	
1 1015	75		35.0	2.41		16.4		
1 1105	125	37.3		3.46	10.0		312.	
1 1115	135		38.2	3.55		12.6		
1 1205	185	40.0		2.96	8 . 2		421.	
1 1215	195		40.2	3.37		10.0		2
1 1305	245	41.4	manus upon vous mines about office	3.09	6.5		455.	
1 1315	255		40.8	3.00		8.0		3
1 1405	305	42.3		2.54	5.2		470.	
1 1415	315		40.7	2.45		6.2		4
1 1505	365	40.3		1.87	4 + 8		486.	
1 1515	375		39.7	1.73		5.8		4
1 1605	425	37.5		1.09	3.8		516.	
1 1615	435		37.1	1.00		4.8		4
2 835	1415	29.0			0.5		176.	
2 845	1425		31.1			0.3		3
2 1005	1505	33.5	***************************************	2.00	50.0		125.	
2 1015	1515		36.0	2.59		0.2	***************************************	3
2 1105	1565	37.7		3.52	38.0		99.	
2 1115	1575		38.1	3.23		0.2	the rife time can the same	3
2 1205	1625	40.2		3.19	27.0		127.	
2 1215	1635		40.7	3.50		10.5		3
2 1305	1685	40.4		3.23	20.0		303.	
2 1315	1695		39.8	3.19		5.0		4
2 1405	1745	41.0		2.59	28.0		394.	
2 1415	1755		40.3	2.45		4.5		4
2 1505	1805	38.7		1.73	10.1			
2 1515	1815		38.1	1.64		3.5		4

NO DATA TAKEN

36.5

SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 *PART>.3 PART/CC CLIMET	SIDE 2 #PART>.3 PART/CC CLIMET	SIDE 1 #PART>.5 PART/CC CLIMET	SIDE 2 #PART>.5 PART/CC CLIMET	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 #PART>1 PART/CC CLIMET
0.0	1. 0.	1.	0. 0.	0.	0 · 0 ·	0.
22.0		0.		٥.		0.
16.4	71.	1.	0.	0.	0.	0.
	312.		44.		0.	
12.6		79.		0.		٥.
	421.		189.		7.	
10.0	455.	279.	303.	27.	56.	0.
8.0	477+	394.	303+	137.	70+	2.
	470.		365.		122.	
6.2	,,, ,,, ,,, ,,, ,,,,,,,,,,,,,,,,,,,,,,	433.		234.		18.
	486.		399.		169.	
5.8		447.		288.		46.
	516.		440.		219.	
4.8		455.		317.	ents were near serv while mean	68.
	176.		174.		9.	
0.3		367.		107.		3.
	125.		125.		6.	
0.2		349.		320.		12.
0.2	99,	311.	98.	306.	3.	48.
V+2	127.	3110	77.	300+	2.	70+
10.5	* * * * * * * * * * * * * * * * * * *	343.		275.	£. •	71.
	303.		77.	***************************************	4.	
5.0		469.	***************************************	350.		123.
	394.	er4 600 ma she she c'm	136.		7.	
4.5		492.	2.00 TOP ONE OLD THE OLD	387,	uite shit free use effe from	152.
	418.		180.		9.	
3.5		491.		383.		144.

AFF-111 RJ-5, VARIABLE FUEL 1981 AUGUST 6,7

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIBE 1 BSCAT 10-4 M-1 MRI-388	SIDE 2 BSCAT 10-4 M-1 MRI-388	SIDE 1 AER.V UM3/CC TSI-023	SIDE 2 AER.V UM3/CC TSI-023	SIDE 1 AER.N PART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SII AEI UM: TSI-
1 605	-175	0.0	0.0	1.	1.	-913.	-913.	
1 725	-95					depth perm data speck delive depart		***
1 835	-25	0.0		4.		1.9E 04		14
1 845	-15		0.1	dens filter area pare eter teria	2.		4.1E 04	
1 1005	65	8.7		40.		4.4E 04		116
1 1015	75		4.7		34.		4.5E 04	
1 1105	125	19.0		54.	*	4.8E 04		139
1 1115	135		10.0		34.		4.8E 04	
1 1205	185	31.0		64.		4.3E 04		153
1 1215	195		17.0	**** **** **** **** ****	26.		4.5E 04	
1 1305	245	49.0		61.		5.3E 04		155
1 1315	255		27.0		62.		3.9E 04	
1 1405	305	62.0		46.		7.8E 04		144
1 1415	315		35.0		40,		5.3E 04	
1 1505	365	73.0		100.	***************************************	4.7E 04		179
1 1515	375		42.0		38.		3.1E 04	
1 1605	425	80.0		62.		6.5E 04		151
1 1615	435		44.0		27.		3.3E 04	
2 835	1415	34.0		6.		862.		
2 845	1425		7.0		9.		3784.	
2 1005	1505	3.6		51.		9.2E 04		164
2 1015	1515		7.8		8.		1555.	
2 1105	1565	6.2		63.		7.7E 04		201
2 1115	1575		7.8		11.		-104.	
2 1205	1625	14.0		96.		8.4E 04		225
2 1215	1635		11.0		10.		4436.	
2 1305	1685	23.0		79.		4.1E 04		213
2 1315	1695		32.0		34.		1.8E 04	
2 1405	1745	15.0		78.		4.3E 04		201
2 1415	1755		50.0		42.		2.0E 04	
2 1505	1805	32.0		58.		3.3E 04		162
2 1515	1815	THE PAR SHIP SHAP SHAP SHAP	49.0		47.	علمة عافة فالد عبيه 1950 خسم	1.7E 04	

5.5

E 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	
. V	AER.N	AER+N	AER.S	AER.S	RJ-5(A)	RJ-5(A)	
/CC	PART/CC	PART/CC	UM2/CC	UM2/CC	PPMC	PPMC	
023	TSI-023	TSI-023	TSI-023	TSI-023	VAR 3700	VAR 3700	1
1.	-913.	-913.	9.	9.	made to the pulls type and		
		~				0.527	Α
	1.9E 04	need them takes being asking	144.		1.166		••
<b>P</b> •	****	4.1E 04		218.			
	4.4E 04		1169.		1.692		
4.		4.5E 04		1045.	***		
	4.8E 04		1391.				
4.		4.8E 04		1093.		1.059	
	4.3E 04		1532.		1.120		
<b>6</b> •		4.5E 04		1033.			
	5.3E 04		1556.		*** ***		
۲.	****	3.9E 04		1337.		1.099	
	7.8E 04		1449.				
D •		5.3E 04		1202.			
B.	4.7E 04		1794.		1.005 A		
<b>5</b> +		3.1E 04		1111.			
7.	6.5E 04		1516.				
<b>'</b> •		3.3E 04	and good tong along grave grave	937.		0.555	
	862.		51.				
•		3784.		154.			
	9.2E 04		1641.			***	
₿•		1555.		139.			
	7.7E 04		2010.				
•		-104.		148.		0.994	
	8.4E 04		2254.		1.400	···	
<b>)</b> •		4436.		222.			
	4.1E 04	Mary 45-6 core 1000 (1000 1000)	2137.				
		1.8E 04		259.			
	4.3E 04		2015.		1.560		
2.		2.0E 04		1127.			
	3.3E 04		1629.		D-77 0000 0000 0000 0000 ppps		
•		1.7E 04		1101.		0.677	

Engle.

AFF-111 RJ-5, VARIABLE FUEL 1981 AUGUST 6,7

CLOCK TIME	ELAPSED TIME	SIDE 1 RJ-5(B) PPMC	SIDE 2 RJ-5(B) PPMC	SIDE 1 RJ-5(C) PPMC	SIDE 2 RJ-5(C) PPMC	SIDE 1 PAN PPM	SIDE 2 PAN PPM	SI: H Pl
DY HR.	(MIM)	VAR 3700	VAR 3700	VAR 3700	VAR 3700	ECD-3	ECD-3	i
1 605	-175		**** Mad +*** adm atom ways			0.000	0.000	<u></u>
1 725	-95		1.137 A		4.412 A			
1 835	-25	2.130		8.709				0
1 845	-15						0.000	
1 1005	65	2.228		8.773		0.001		
1 1015	75						0.000	
1 1105	125		-			0.001		
1 1115	135	**** **** *** ***	1.459		5.630		0.001	
1 1200	180							0 -
1 1205 1 1215	185	2.042		8.004		0.001		
1 1305	195 245		****	~ ~ ~ ~ ~ ~	and area over take after bean		0.000	
1 1315	245 255		1.501					****
1 1405	235 305		1.201		5.779		0.000	***
1 1415	315	Page 1956 term page about page			****	0.001		
1 1505	365	1.685 A		6.746 A		0.001	0.000	
1 1515	375		***	0+/40 H		0.001	0.000	
1 1605	425					0.000		
1 1610	430			-				0,
1 1615	435		1.090		3.882		0.000	
2 810	1390							0.
2 835	1415				*** *** *** *** ***	0.001		
2 845	1425						700 FTS 000 100 000 000	
2 1005	1505					0.001	**** **** **** **** ****	
2 1015	1515						0.001	
2 1105	1565					0.001	~~	
2 1115	1575		1.288		4.241		C.001	
2 1200 2 1205	1620	4 774						0.
	1625	1.771		5.895		0.002		
2 1215 2 1305	1635						0.001	
2 1305	1685 1695					0.002		
2 1405	1745	2.057					0.001	
2 1405	1745 1755	2.057		6.775		0.001		
2 1505	1805						0.002	
2 1510	1810					0.002		
2 1515	1815		1.274		3.837		3 000	0.
_ 1010	1010		1+2/4		3+03/		J.002	

SIDE 1 PAN PPM ECD-3	SIDE 2 PAN PPM ECD-3	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 PART.024 PART/CC TSI-023
0.000	0.000			-1336.	-1336.
		0.021		4 05 04	
	0.000	0.051	0.006	1.2E 04	
0.001				2.0E 04	2.5E 04
	0.000			2+00 04	1.7E 04
0.001			···	2.5E 04	11/2 07
	0.001			2+32 04	2.3E 04
		0.017	0.015		2+56 04
0.001				2.4E 04	
	0.000				2,2E 04
				3.2E 04	
	0.000				1.9E 04
0.001				4.7E 04	
	0.000				3.4E 04
0.001				3.4E 04	
	0.000	*** *** *** *** ***			1.8E 04
0.000		********		4.6E 04	
		0.038	0.025		
	0.000				2.1E 04
		0.008	0.004		
0.001	-			501.	
					2505.
0.001		***************************************		2.2E 04	
	0.001				1002.
0.001				1.9E 04	
	0.001				~1837.
		0.010	0.006		
0.002				8350.	
0.002	0.001			4446	668.
0.002	0.001			1169.	
0.001	0.001			1 05 04	5845.
	0.002			1.0E 04	 
0.002	V+VV2			9185.	5344.
		0.017	0.013	7103.	
	0.002		0.013		5010.
	~ ~ ~ ~				2070+

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AFF-111 RJ-5, VARIABLE FUEL 1981 AUGUST 6,7

			SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CL	.ock	ELAPSED	PART.042	PART.042	PART.075	PART.075	PART-133	PART.133	PART
ï	IME	TIME	FART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	FART
DY	HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-
1	605	-175	609.	609.	-266.	-266.	72.	72.	<b>-1</b>
1	835	-25	4437.		2131.	elect time outs thin year about side	241.		4
	845	-15		8787.		6127.		289.	
	005	65	1305.		1.2E 04		9447.		113
	015	75		1305.		1.9E 04		7302.	-
	105	125	870.		9013,		1.1E 04		166
	115	135		870.		1.4E 04		8989.	ma >< m
	205	185	0.		4484.		1.2E 04		216
	215	195		1566.		1.0E 04		1.0E 04	
	305	245	261.		4840.		1.3E 04	A 200 M on the line	14€
1 1	315	255		957.	and the last may be a series	7459.		8772.	
1 1	405	305	2088.		1.8E 04	***************************************	8339.		20€
1 1	415	315		1392.		6127.		1.0E 04	
1 1	505	365	87.		533,		8652.		333
i 1	515	375		-2088.		2975.		1.0E 04	
1 1	605	425	87.		6394.		8314.		300
1 1	615	435		0.		755.		9327.	
	835	1415	87.		488,		-289,		3
	845	1425		174.		44.		747.	
	005	1505	2.7E 04		3.4E 04	~ ~ ~ ~ ~ ~ ~ ~ ~	7158.		105
	015	1515		-174.		-311.		675.	
	105	1565	6525.		3.7E 04		1.2E 04		187
	115	1575		783.		266.		506.	
	205	1625	5.7E 04		710.		1.5E 04		193
2 1	215	1635		1392.		311.	also sale your sale you you?	1566.	
2 1	305	1685	1566.		1.8E 04		1.8E 04		205
2 1	315	1695		696.	~	3596.		6194.	
2 1	405	1745	1305.		1.1E 04		1.7E 04		257
2 1	415	1755		348.		2486.		9423.	
2 1	505	1805	783.		5994.		1.4E 04		268
2 1	515	1815		348.		1243.		7375.	

*

2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE i	SIDE 2
75	PART.133	PART.133	PART+237	PART.237	PART.422	PART.422
C	PART/CC	PART/CC	PARY/CC	PART/CC	PART/CC	PART/CC
23	TS1-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
	72.	72.	-12.	-12.	20.	20.
	241.	the state of the same and and	49.		67.	
•		289.		0.		0.
	9447.	***	1132.		180.	
04		7302.	acts come alone tears along along	701.		67.
	1.1E 04		1660.		273,	
04		8989.		4888		133.
_	1.2E 04		2165.	200 pen men men men men	400.	
04		1.0E 04	mme land man error same same	984.		107.
-	1.3E 04		1464.		574.	
	mar and pure of the state	8772.	after take seek from hade back	2029.		140.
-	8339.		2066.		280.	
		1.0E 04		1734.		153.
***	8652.		3333.		507.	
`_		1.0E 04		1697.		307.
_	8314.		3001.		380.	
		9327.	** ** *** ***	1968.		40.
	-289.		37.		13.	
i		747.		246.		47.
-	7158.		1058.		213.	
	Special reference of the special special	675.	***************************************	295.	with party spire chief where party	53.
***	1.2E 04		1870.		220.	~ ~ ~
		506.	THE R. P. CO. STR. 1992 1994	49.		100.
-	1.5E 04		1931.	~ ~ ~ ~ ~	1014.	
	100 100 100 700 100 100	1566.		467.		13.
	1.8E 04	1996 Alpin 1886 Mary 1889 Alpin	2054.		587.	
		6194.		1636.		133.
-	1.7E 04		2571.		380,	
		9423.		2005.	and with star and state age.	253.
-	1,4E 04		2681.		360.	
		7375.		2300.		320.

		SIDE 1	SIDE 2
CLOCK	ELAPSED	PART.750	
TIME		PART/CC	PART/CC
DY HR.		TSI-023	TSI-023
		,	
1 605	-175	0.	0.
1 835	-25	0.	
1 845	-15	*** *** *** *** ***	Q +
1 1005	65	46.	
1 1015	75		60.
1 1105	125	74.	
1 1115	135	artic boys lart rigo over arts.	39.
1 1205	185	77.	
1 1215	195		0.
1 1305	245	49.	
1 1315	255		137,
1 1405	305	28.	
1 1415	315		32.
1 1505	365	211.	right first later from order cross.
1 1515	375		4.
1 1605	425	67.	
1 1615	435		0.
2 835	1415	25.	
2 845	1425		21.
2 1005	1505	81.	
2 1015	1515	***************************************	14.
2 1105	1565	81.	
2 1115	1575		28.
2 1205	1625	102.	-
2 1215	1635		18.
2 1305	1685	74.	
2 1315	1695		42.
2 845 2 1005 2 1015 2 1105 2 1115 2 1205 2 1215 2 1305 2 1315 2 1405 2 1415 2 1505	1745	98.	
2 1415	1755		18.
	1805	32.	
2 1515	1815	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	42.

NO DATA TAKEN

## NOTES

535

PRESSURE ROSE ON COLUMN FLOW REGULATOR SO R.T.'S ARE OFF. UNRELIABLE, BECKMAN HAD A "NOISE" PROBLEM. Α

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N-C4

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AFF-112 PROPENE - NOX CONDITIONING 1981 AUGUST 10

NOTE: N-BUTANE AND N-PENTANE ALSO INJECTED TO DETERMINE BUTYL AND PENTYL NITRATE YIELDS.

0647: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 18.2 DRY BULB: 29.8 R.H.: 32% DEW POINT: 10.8

0757: END FILL.

C821: INJECTED 11.0 ML. NO2.

0823: INJECTED 12.0 ML. NO.

0825: INJECTED 48.0 ML. N-BUTANE.

0827: INJECTED 19.2 ML. PROPENE.

0830: INJECTED 225 MICROLITERS N-PENTAME.

0836: MIX BAG.

0900: UNCOVER BAG (T=0).

0905: WEATHER: SUNNY AND HOT.

VA1400-7 1.1178

1410: RUN OVER, SAMPLING ENDED.

T=0 AT 900 PST

BAG NO. 23 USED

ID INST. **AVERAGE** S.DEV UNITS VALUE DORIC-1 4.2 DEG C γ 36.4 UV RAD EPPLEY-2 2.72 0.49 MW/CM2 ID INST. INITIAL UNITS CONC. NO B-NOX-1 0.223 PPM NO2-UNC B-NOX-1 0.200 PPM THC BK6800-1 14.30 PPMC PROPENE DMS-1 0.4141 PPM N-C5 VA1400-7 1.0708 PPM

#### INSTRUMENTS USED

ID LABEL DESCRIPTION 1400 VA1400-7 RM-121# C20-M/DC-703 GC# FID 2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID 2100 PN-1 RM-121 POROPAK-N GC; FID 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID BENDIX 8101BX NOX ANALYZER; SN300038-2 4600 B-NOX-1 DASIBI 1790 OZONE MONITOR 1790 D-1790 4850 BK6800-1 BECKMAN CO, HC AMALYZER SN:100015D 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 4000 ECD-3 AF-LAB; 12° 5% CARBOWAX-600 GC; ECD 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG TSI ELECTRICAL AEROSOL ANALYZER MD:3030 4300 TSI-023 CLIMET 208 OPTICAL PART, CTR; SN: 76-148 4350 CLIMET 4400 MRI-388 MRI INTEGRATING NEPHELOMETER MD:1550B 4200 CNC-143 ENV ONE RICH100 CONDENS NUCLEI CTR; SN143

PPM

AFF-112 PROPENE - NOX CONDITIONING 1981 AUGUST 10

PPM

CLOCK ELAPSED OZONE

TIME

(MIM)

TIME

DY HR.

	845 905	-15 5	0.000	0.223	0.200	0.449	14.30	0.4141	1
	1005	5 65	0.027	0.092	0.321	0.432	13.90		1.
	1105	125	0.205	0.010	0.374	0.389	14.00		1.
	1205	185	0.574	0.008	0.318	0.325	12.70		0.9
	1305	245	0.822	0.005	0.271	0,278	12.90		0.8
	1405	305	0.935	0.005	0.238	0.242	12.70	**	0.8
	CLOCK	ELADGER	#PART>.5	#PART>1	DCCAT	A	AFP N	AED C	3.1
					BSCAT	AER.V	AER.N	AER+S	N-
r	TIME	TIME	PART/CC	PART/CC	10-4 M-1	UM3/CC		UM2/CC	PF
L	Y HR.	(MIN)	CLIMET	CLIMET	MRI-388	TSI-023	TSI-023	TSI-023	VA14
1	845	-15	٥.	0.	0.0	4.	-270.	40.	1.
1	905	5			*** *** *** *** ***				1.
	1005	65	0.	0.	0.1	5.	9725.	119.	1 .
1	1105	125	0.	C.	1.2	7.	1.0E 04	223.	1.
	1205	185	1.	0.	5.3	8.	1.2E 04	304.	0.9
1	1305	245	11.	0.	7.2	18.	1.1E 04	340.	0.8
1	1405	305	47.	0.	7 • 2	10.	1.2E 04	261.	0.8
	CLOCK	ELAPSED	RJ-5(B)	RJ-5′C)	PAN	PART.024	PART.042	PART.075	PART
	TIME	TIME	PPMC	PPMC	PPM	PART/CC	PART/CC	FART/CC	PARI
D	Y HR.	(MIN)	VAR 3700	VAR 3700	ECD-3	TSI-023	781-023	TSI-023	TSI-
1	845	-15	2.1E 05A	7.2E 05A	0.000	-835.	261.	222.	2
1	1005	65			0.001	2338.	4872.	2220.	21
1	1105	125			0.018	1002.	783.	8347.	21
	1205	185			0.068	2171.	87.	6882.	221
	1305	245			0.121	1336.	435.	7237.	190
	4.45						, = = -	· <del> ·</del>	

0.146

5511.

87.

3552.

233

NO2-UNC

PPM

B-NOX-1

NOX-UNC

B-NOX-1 BK6800-1

PPM

THC

PPMC

PROPENE

FPM

DMS-1

VA1

ИО

PPM

D-1790 B-NOX-1

NO DATA TAKEN

305

NOTES

1 1405

Α 30% RESIDUE

NC -1	THC PPMC BK6800-1	PROPENE PPM DMS-1	N-C5 FPM VA1400-7	T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	CONDENS 10E3/CC CNC-143	#PART>.3 PART/CC CLIMET
49	14.30	0.4141	1.071	28.7		0.0	0.
32	13.90		1.066 1.040	34.6	2.00	2.8	0.
89 25	14.00 12.70		1.002 0.9385	37.1 38.6	3.37 2.86	2.6 2.0	0. 105.
78 42	12.90 12.70	and the part for the first	0.2836 0.8549	39.4 39.9	2.77 2.59	1.6	100. 278.
Ų		AER.S	N-C4				RJ-5(A)
23	PART/CC TSI-023	UM2/CC TSI-023	PPM VA1400-7	RAW DATA 10'C-600	RAW DATA 10'C-600	RAW DATA 10'C-600	PPMC VAR 3700
	-270.	40.	1.118	0.0000	0.0000		1.8E 03A
 }.	9725.	119.	1.113 1.077	0.0000 0.0003	0.0000	0.0000 0.0010	
•	1.0E 04 1.2E 04	223. 304.	1.023 0.9460	0.0017 0.0042	0.0021 0.0039		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	1.1E 04 1.2E 04	340. 261.	0.8935 0.8712	0.0058 0.0081			
024	PART.042	PART.075	PART.133	PART.237	PART.422	PART.750	
CC 23	PART/CC TSI-023	PART/CC TSI-023	PART/CC TSI-023	PART/CC TSI-023	PART/CC TSI-023	PART/CC TSI-023	
j.	261. 4872.	222. 2220.	24. 217.	37. 74.	7. -13.	14. 18.	
} • } •	783.	8347.	217.	98.	27,	14.	
•	87. 435. 87.	6882. 7237. 3552.	2217. 1904. 2338.	160. 25. 12.	13. -60. 33.	11. 74. 21.	

RJ-5 VS. JP-10 1981 AUGUST 11

DAY 1 (AUGUST 11)

0445: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 13.4 DRY BULB: 19.7 R.H.=49% DEW POINT: 8.5

0555: END FILL.

0626: INJECTED 5.0 ML. NO2.

0628: TNJECTED 18.0 ML. NO.

0630; MIX AND DIVIDE BAG.

0638: *NJECTED 270 MICROLITERS RJ-5 INTO SIDE A AT 250 DEGREES C FOR 30 MINUTES.

0656: INJECTED 312 MICROLITERS JP-10 INTO SIDE B USING HEAT GUN FOR 15 MINUTES.

0712: MIX SIDE A, SIDE B.

0900: UNCOVER BAG (T=0).

0905; WEATHER: SUNNY AND HOT.

1620: END SAMPLING, DAY 1.

DAY 2 (AUGUST 12)

0900: UNCOVER BAG, DAY 2.

0905: WEATHER: SUNNY AND HAZY.

BK6800-1 30.80

1520: END SAMPLING.

RESULTS	DAY 1	DAY 2
area white make apply limits again	when writer down blood dealth.	
AVG. T (DEG. C)	37 (+-3)	34 (+-3)
AVG. UV (MW/CM2)	2.5 (+-0.9)	2.9 (+-0.6)

T=0 AT 900 PST

38

THC

BAG NO. 23 USED

ID	INST.	AVERAGE VALUE	e.DEV	UNITS	
T	DORIC-1	33.6	6.0	DEG C	SIDE 1
T	DORIC-1	33.9	5.7	DEG C	SIDE 2
UV RAD	EPPLEY-2	2.66	0.74	MW/CM2	
ID	INST.	INITIAL CONC.	UNITS		
NO	B-NOX-1	0.348	PPK	SIDE 1	
סא	B-NOX-1	0.351	PPM	SIDE 2	
NO2-UNC	B-NOX-1	0.i10	PPM	SIDE 1	
NO2-UNC	B-NOX-1	0.111	PPK	SIDE 2	
THC	BK6800-1	16.80	PPMC	SIDE 1	

PPMC

SIDE 2

INSTRUMENTS USED SAMPLING RATE ID LABEL DESCRIPTION (ML/MIN) 2200 DMS-1 RM-1219 DIMETHYLSULFOLANE GC; FID 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID 2100 PN-1 RM-121 POROPAK-N GC; FID DASIBI 1790 OZONE MONITOR 1790 D-1790 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 DORIC TEMPERATURE INDICATOR, SN 61479 1800 DORIC-1 4000 ECD-3 AF-LAB; 12° 5% CARBOWAX-600 GC; ECD 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG TSI ELECTRICAL AEROSOL ANALYZER MD:3030 4300 TSI-023 4350 CLIMET CLIMET 208 OPTICAL PART. CTR; SN:76-148 4400 MRI-388 MRI INTEGRATING NEPHELOMETER MD: 1550B ENV ONE RICH100 CONDENS NUCLEI CTR; SN143 4200 CNC-143 4850 BK6800-1 RECKMAN CO, HC ANALYZER SN:100015D CHROMOTROPIC ACID HCHO ANALYSIS 3000 CA

AFF-113 RJ-5 VS. JP-10 1981 AUGUST 11

CLOCK TIME	ELAPSED TIME	SIDE 1 OZONE PPM	SIDE 2 OZONE PPM	SIDE 1 NO PPM	SIDE 2 NO PPM	SIDE 1 NO2-UNC PPM	SIDE 2 NO2-UNC PPM	SIDI NOX-I PPI
DY HR.	(MIM)	D-1790	D-1790	B-N <b>OX-1</b>	B-NOX-1	B-NGX-1	B-NOX-1	B-NO
1 605	-175	0.001	0.001	0.000	0.000	0.001	0.001	0.0
1 835	-25	0.003		0.348	-	0.110	FOR THE 100 GOT GOT AGE	0.4
1 845	-15	sent this sent test have also	0.000		0.351	***	0.111	*******
1 1005	65	0.005		0.298		0.142		0 + 4
1 1015	75		9.008		0.311		0.150	
1 1105	125	0,008		0.256		0.172	201 May 200 May 200 May	0
l 1115	135		0.011		0.277		0.170	
i 1205	185	0.012		0.207		0.208	*** *** #** *** ***	0 + 4
1 1215	195		0.006		0.239		0.200	
1 1305	245	0.012		0.158		0.241	***	0.4
1 1315	255	***	0.006		0.198		0.230	
1 1405	305	0.018		0.112		0.276		0.4
1 1415	315		0.007		0.169		0.253	
1 1505	365	0.023		0.082		0.291	man other source bears being about	0.0
1 1515	375		800,0		0.147	Marie 2004 (Spill 2004 2004 2004	0.270	~ ** **
1 1605	425	0.022		0.062	ON THE SALE ARE SALE AREA	0.307		0.0
1 1615	435		0.003	added to good a time and decade	0.132	ation has been also other	0.282	PP 444 7 7 11
2 835	1415	0.005	,	0.023		0.330		0.5
2 845	1425		0.000		0.112	- other second photos makes advan	0.291	
2 1005	1505	0.055		0.038		0,298		0.5
2 1015	1515		0.022		0:098	··· ···	0.301	
2 1105	1565	0.076		0.030		0.292		0.43
2 1115	1575		0.030	~~ ~~ ~~ ~~	0.077	other start state Main andre design	0.312	
2 1205	1625	0.114		0.018		0.280	*** **** **** **** ****	0.2
2 1215	1635		0.040		0.058		0.329	
2 1305	1685	0.168		0.007		0.256		0.2
2 1315	1695		0.057		0.039		0.343	
2 1405	1745	0.255	**** **** **** **** ****	0.001		0.207		0.2
2 1415	1755		0.076		0.022		0.300	
2 1505	1805	0.357		0.000		0.131	first store made with their more	0.1
2 1515	1815	1007 CHT 7541 MY 1004 1700	0.094		0.015		0.343	

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SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
NO2-UNC	NO2-UNC	NOX-UNC	NOX-UNC	THC	THC
PPM	PPM	PPM	PPM	PPMC	PPMC
B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	BK6800-1	BK6800-1
D-ROX 1	D NON 1	2 11-21			
0.001	0.001	0.001	0.001	3.28	3.28
0.110		0.466		16.80	
	0.111		0.472		30.80
0.142		0.451		12.70	
	0.150		0.469		30.80
0.172		0.442		14.60	
	0.170		0.460	ages page with term what their	30.80
0.208		0.431		13.10	
	0.200		0.455		29.00
0.241		0.417		13.90	200 W 100 W 800
	0.230		0.448	30'00 2000 2077 "000 5007 577"	30.80
0.276		0.401		13.70	
	0.253		0,441	under gange, until dates faller from	29.90
0.291		0.382		13.00	
	0.270	and state were often pile with	0.432		29.90
0.307		0.374		14.50	
	0,282		0.430		29.00
0.330		0.357		12.30	
	0.291	safe part was man price \$100	0.422		29.90
0,298		0.333		12.70	
	0.301		0.410		29,90
0.292		0.320		10.90	
2146 ADIS 8000 THE PERS NA	0.312		0.400		29.00
0.280		0.297	1747 - 1844 - 1844 - 1844 - 1844	12.40	
	0.329		0.393		28.10
0.256		0.262		13.40	
are the sale that the little	0.343		0.388	tota tota no me tota com	29.90
0.207		0.210		12.60	
	0.300		0.324		29.90
0.131		0.131		12.20	
	0.343	****	0.361		29.90

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		SIDE 1	SIDE 2		SIDE 1	SIDE 2	SIDE 1	SII
CLOCK	ELAPSED		T	UV RAD	CONDENS	CONDENS	#PART>.3	#PAF
TIME	TIME	DEG C	DEG C	MW/CM2	10E3/CC	10E3/CC	PART/CC	PART
DY HR.	(MIM)	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC-143	CLIMET	CL1
1 505	-175	19.8	19.8		0.0	0.0	0.	
1 835	-25	26.7			17.2		٥.	
1 845	-15		28.2			0.1		
1 1005	65	31.4		1.91	13.8		٥.	Ar a 1988 100
1 1015	75		33.1	2.36		0.0	man 1996 mile same NGC Alles	1
1 1105	125	36.3		3.64	10.8		14.	
1 1115	135		36.9	3,64		0.0		12
1 1205	185	38.5	****************	2.91	9.6		169.	
1 1215	195	~ ~ ~ ~ ~ ~	39.0	3.55		0.0		17
1 1305	245	40.1		3.19	7.8		340.	·- ·
1 1315	255		40 + 1	2.73		0.0	use they take take jett him	15
1 1405	305	38.4		2.63	6.1		408.	~
1 1415	315		38.3	2.50		0.0		13
1 1505	365	37.4		1.82	4 ، 4		423.	~
1 1515	375		36.0	1.82		0.0		10
1 1605	425	33.7		1.14	3.2		429,	en m. s
1 1615	435		32.7	1.05		0.0	and any one was short to	8
2 835	1415	23.3		4011 NOV 1000 AND AND AND	0.1	cope iron outs open with until	127.	
2 845	1425		24.0			0.0		
2 1005	1505	29.4		2.09	8.0		282,	
2 1015	1515		30.5	2.41		0.0		
2 1105	1565	32.6		3,28	0.6		387.	
2 1115	1575		33.8	3.37		0.0		
2 1205	1625	35.1		2.80	0.5	and the same can say	462.	
2 1215	1635	~ ~ ~ ~ ~ ~	36.2	3.28		0.0		
2 1305	1685	37.3		3.55	0 + 4	40° 6 7 000 000 000 000	417+	<b></b>
2 1315	1695		37.0	3.46		0.0		
2 1405	1745	39.0		2.91	0.7		346.	
2 1415	1755		38.3	2.77		0.0		
2 1505	1805	38.0		2.18	3.9		427.	
2 1515	1815		38.0	2.09		0.0		1

----- NO DATA TAKEN

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SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 #PART/.3 PART/CC CLIMET	SIDE 2 #PART>.3 PART/CC CLIMET	SIDE 1 *PART>.5 PART/CC CLIMET	SIDE 2 #PART>.5 PART/CC CLIMET	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 #PART>1 PART/CC CLINET
0.0	0, 0, 	0. 0. 13.	0. 0. 0.	0.	0. 0.	0. 
0.0	1 69 ·	172. 158. 136.	4. 67. 175. 224.	19. 57.  118. 	0. 0. 5. 17.	0. 0. 2. 4.
0.0	127. 282.	3,	12.	3. 	0.	3. 0.
0.0	387.  462.  417.  346.	4. 3. 4.	187. 221. 385. 353.	3. 3. 3. 	15. 31. 71. 69.	1.
0.0	427.	9.  18.	322.	11.	101.	2.

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AFF-113 RJ-5 VS. JP-10 1981 AUGUST 11

CLOCK TIME	ELAPSED TIME	SIDE 1 BSCAT 10-4 M-1	SIDE 2 BSCAT 10-4 M-1	SIDE 1 AER.V UM3/CC	SIDE 2 AER.V UM3/CC	SIDE 1 AER·N PART/CC	SIDE 2 AER.N PART/CC	SIDE AER. UM2/
DY HR.	(MIN)	MRI-388	MRI-388	TSI-023	TSI-023	TSI-023	TSI-023	TSI-0
1 605 1 725	-175 -95	0.0	0.0	1.	1 +	680.	680.	10
1 835	-25	0.0		3.		2,2E 04		108
1 845	-15		0.0		2.		115.	
1 1005	65	2.7		30.		4.3E 04		917
1 1015	75		0.7		3.		1168.	
1 1105	125	6.2		24.		3.8E 04		936
1 1115	135		1.6		6+	**** **** **** **** ****	1259.	
1 1205	185	12.0		30.	THE PARK SPIRE SPIRE STORE STORE	3.4E 04		1031
1 1215	195		2.2		3.		1282.	
1 1305	245	20.0		41.		2.8E 04		1106
1 1315	255		2.6		3.		877.	
1 1405	305	26.0		39.		2.6E 04	4500	1098
1 1415	315		2.5		4.	0.05.04	1589.	
1 1505	365	28.0		37.		2.2E 04		964
1 1515 1 1605	375	27.5	2.0	31.	4.	1.7E 04	1002.	802
1 1615	425 435	27+0	J.5	21+	1.	1./E U4	954.	802
1 1013	433		1 + 3		1 +		734+	
2 725	1345					COT toda pada debt ddan mam		
2 835	1415	1.8		7.		3241.		76
2 845	1425		0.2		2.		-5.	
2 1005	1505	7.1		8.	ever from even were of the being	5893.		210
2 1015	1515		0.3		0.		-1292.	
2 1105	1565	12.0		ዎ •		6617.		233
2 1115	1575		0.2		0.	***************************************	895.	****
2 1205	1625	13.0		16.		5772.		281
2 1215	1635		0.2		2.		-499•	
2 1305	1685	11.0		10.		3369.		213
2 1315	1695		0.1		0.		188.	
2 1405	1745	9.6		13.		3388.		222
2 1415	1755		0.2		1.		19.	
2 1505	1805	23.0		23.		1.9E 04		617
2 1515	1815	*** *** *** *** ***	0.3		1.		569.	*** *** ***

NO DATA TAKEN

SIDE 1 AER·N PART/CC	SIDE 2 AER·N PART/CC	SIBE 1 AER·S UM2/CC	SIDE 2 AER.S UM2/CC	SIDE 2 JP-10 FPM VAR 3700	SIDE 1 RJ-5(A) PPMC VAR 3700	SIDE 1 RJ-5(B) PPMC VAR 3700
TSI-023	TSI-023	TSI-023	TSI-023	VAR 3/00	AHK 2100	VIII. 27 5 2
680.	680.	10,	10.		0.186 0.522	0.209 1.012
		108.		and the state of the state of		
2.2E 04		100+	21.	2.508		special area and the same times
	115.	917.			0.727	0.984
4.3E 04	1168.	/1/+	60.			
	1100+	936.				
3.8E 04	1259.	, , , , , , , , , , , , , , , , , , , ,	73.	2.397	page and they daily game took	
3.4E 04	1237+	1031.			0.433	0.847
3+4E V4	1282.		61.			
2.8E 04	12021	1106.				
2+86 04	877.		55,	2.497		
2.6E 04	0//+	1098.				
2.6E V4	1589.		66.			
2.2E 04	13071	964.			0.625	1.013
Z+2E V4	1002.		51.			
1.7E 04	10021	802.				
11/2 04	954.		26.	2.224		
	,					
					0.554	0.732
3241.		76.				
	-5.		29.	2.322		0.909
5893.		210.			0.624	0.909
	-1292.		4.			
6617.		233.				
	895.		4 •	2.240		0.662
5772.		281.	, , , , , , , , , , , , , , , , , , ,	,	0.469	V+002
	-499.		20.			1000 AND PRINT WARE OVER PAIR
3369.	*** *** *** *** ***	213.				1001 100 100 100 100
	188.		6.	2.362		0.675
3388.		222.			0.487	0.073
	19.		17.			
1.9E 04		617.				
	569.		15.	2.290		

CLOCK TIME DY HR:	ELAPSED TIME (MIN)	SIDE 1 RJ-5(C) PPMC VAR 3700	SIDE 1 PAN PPM ECD-3	SIDE 2 PAN PPM ECD-3	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	SIDE 1 PART.024 PART/CC TSI-023	SII PART PART TSI-
1 605	-175	0.654	0.000	0.000	00-0 data (000 data data 1000		334.	33
1 725	-95	3.741		year erest time after and have				
1 810	-50				0.019	0.013		
1 835	-25		0.000			****	1.7E 04	
1 845	-15			0.000				16
1 1005	65	3.732					1.2E 04	****
1 1015	75			0.000		**** **** **** **** ****		33
1 1105	125		0.001			*** *** *** *** ***	1.3E 04	ters ever 270
1 1115	135							33
1 1200	180				0.008	0.013		
1 1205	185	3.094	0.001				1.1E 04	
1 1215	195				*** *** *** *** ***			66
1 1305	245		0.000			*** *** *** *** ***	1.1E 04	
1 1315	255			0.001				
1 1405	305		0.001	0.004		1000 0000 1000 3300 300 taken	1.1E 04	50
1 1415	315			0.001			7515.	50
1 1505	365	3.332	0.001	0.001			/212+	33
1 1515	375		0.002	0.001			4509.	
1 1605	425		0.002		0.017	0.006	4307+	
1 1610	430 435			0.001	0+017	0.000		16
1 1615	433			0.001				10
2 725	1345	2.401						
2 810	1390	21701			0,008	0.004		
2 835	1415		0.000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1670.	
2 845	1425			0.000				16
2 1005	1505	3.183	0.001				3340.	
2 1015	1515			0.000				-150
2 1105	1565		0.002				3340.	
2 1115	1575			0.001				50
2 1200	1620				0.010	0.006		
2 1205	1625	2.089	0.002				2839.	****
2 1215	1635			0.001		delete when well was about the		-66
2 1305	1685		0.002				1169.	
2 1315	1695			0.001	that down both down from both			-16
2 1405	1745	2.013	0.003			***************************************	1169.	
2 1415	1755			0.001				-16
2 1505	1805		0.004				56 <b>84</b> •	
2 1510	1810				0.015	0.008		
2 1515	1815		~~~~	0.002				50

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SIDE 2 HCHO	SIDE 1 FART.024	SIDE 2 PART.024	SIDE 1 PART.042	SIDE 2 PART.042	SIDE 1 PART.075	SIDE 2 PART.075
PPM CA	PART/CC TSI-023	PART/CC TSI-023	PART/CC TSI-023	PART/CC TSI-023	PART/CC TSI-023	PART/CC TSI-023
СН	191-059	1517023	151-023	121-052	151-023	121-023
	334.	334.	435.	435.	0.	0.
0.013	part Africa above more optim tuning					and such state take many span
	1.7E 04		3132.	**** 100 100 100 100 100	1465,	
		167.		174.		-266.
	1.2E 04		6873.		1.8E 04	
		334.		609.		0.
	1.3E 04		435.		1.5E 04	
	and then seek this that year	334.		174.		355.
0.013		make other other avec name from	duder years offer trots torm state	THE THE SER STOR \$100 PM.	anne din Tues soon edité filèn	
	1.1E 04		696.		1.2E 04	
		668.		-261.		266.
	1.1E 04		0.		6260.	
	1.1E 04	0 +	-1218.	261.	4884.	89.
	1+16 04	501.	-1210:	348.	40041	355.
page (200 Mars 100, page 400)	7515.	201+	783.		3152.	
	,010,	334.		435.		0.
	4509.		2175.		2398.	
0.006			****			
		167.		0 +		710.
		more made whose cases would below		****		- 10 100 all tops now type
0.004						
	1670.		783.		400.	100   100   100   100   100
		167.		-87.		-133.
	3340.		0.		799.	
	7740	-1503.		0.		89.
	3340.	501.	261.	435.	710.	-89.
0.006		301+		430+		-67.
U+UU0	2839.	· · · · · · · · · · · · · · · · · · ·	522.		355.	
one we arm fight upper miner		-668.		٥.		89.
	1169.		522.		133.	
		-167.	222 200 200 Page 400 007	174.		133.
	1169.		261.		577.	
		-167.		٥.	paper before could not upon white,	133.
	8684.		87.		4040.	
0.008						
		501.		0.		0.

AFF-113 RJ-5 VS. JP-10 1981 AUGUST 11

			SIDE 1	SIDE 2						
	CLOCK		PART.133	PART.133	PART.237	PART.237	PART.422	PART.422	PART.750	PART.750
•	TIHE	TIME	PART/CC							
	DY HR.	(MIN)	TSI-023							
•	1 605	-175	-96.	-96.	0.	0.	0.	٥.	7.	7.
	1 835	-25	289.		0.	~	0.		11.	
	1 845	-15		24.		-37.		53.		٥.
ŧ	1 1005	65	5230.		455.		133.		49.	
	1 1015	75		120.		25.		80.		0.
ı	1 1105	125	7784.		775.		87.		11.	
4	1 1115	135		313.		61.		٥.		21.
	1 1205	185	9182.		1033.	~	153.		14.	
ſ	1 1215	195		506.		86.		13.		4.
4	1 1305	245	9809.		1341.		193.		49.	
	1 1315	255		434.		86.		٥.		7.
€	1 1405	305	1.0E 04		1611.		160.		39.	
*	1 1415	315		313.		25.		40.		7.
	1 1505	365	8604.		1525.		80.		56.	
€.	1 1515	375		169.		37.		13.		14.
	1 1605	425	6628.		1255.		180.		28.	
	1 1615	435		48.		25.		٥.		4.
€	2 835	1415	337.		86.		-73.		39.	
	2 845	1425		0.		-12.		60.		٥.
-	2 1005	1505	1205.		492.		53.		4.	
€,	n 2 1015	1515		145.		-12.		-13.		4.
	л 2 1015 2 1105	1565	1759.		529.		7.		11.	
	2 1115	1575		48.		0.		0.		٥.
C	2 1205	1625	1350.		664.		0.		42.	
	2 1215	1635		48.		25.		٥.		7.
	2 1305	1685	940.		504.		93.		7.	
€	2 1315	1695		48.		٥.		٥.		٥.
	2 1405	1745	916.		357.		80.		28.	
	2 1415	1755		0.		49.		٥,		4.
C	2 1505	1805	5230.		898.		33.		35.	
	2 1515	1815		48.		0.		20.		٥.
C		NO DAT	A TAKEN							

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AFF-114
JP-10 VS RJ-5
1981 AUGUST 13
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DAY 1
       (AUGUST 13)
  0435: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 15.2
       DRY BULB: 22.0 R.H.=48% DEW POINT: 10.4
  0540: END FILL.
  0622: INJECTED 5.0 ML. NO2.
  0624: INJECTEN 18.0 ML. NO.
  0628: MIX AND DIVIDE BAG.
  0638: INJECTED 270 MICROLITERS RJ-5 INTO
       SIDE B AT 250 DEGREES C FOR 30 MIN.
  0655: INJECTED 312 MICROLITERS JF-10 INTO
       SIDE A USING HEAT GUN FOR 15 MIN.
  0713: MIX SIDE A, SIDE R.
  0900: UNCOVER BAG (T=0).
  0905: WEATHER: SUNNY AND HOT.
  1630: BAG COVERED.
DAY 2
       (AUGUST 14)
  0900: UNCOVER BAG, DAY 2.
  0905: WEATHER: SUNNY AND HAZY.
  1520: END RUN.
  RESULTS
                     DAY 1
                                        DAY 2
  ______
                      ----
                                         -----
                     36 (+-3)
AVG. T (DEG. C)
                                         39 (+-2)
AVG. UV (MW/CM2)
                     2.5 (+-0.8)
                                         2.6 (+-0.6)
T=0 AT 900 PST
BAG NO. 23 USED
```

11:	INST.	AVERAGE	S.DEV	UNITS	
		VALUE			
Ţ	DORIC-1	35.1	5.8	DEG C	SIDE 1
T	DORIC-1	35.4	5.4	DEG C	SIDE 2
UV RAD	EPPLEY-?	2.53	0.69	MW/CM2	
ID	INST.	INITIAL	UNITS		
		CONC.			
ИО	B-NCX-1	0.338	PPM	SIDE 1	
ИО	B-NOX-1	0.336	PPM	SIDE 2	
NO2-UNC	B-NOX-1	0.109	PPM	SIDE 1	
NO2-UNC	B-NOX-1	0.107	PPM	SIDE 2	
THC	BK6800-1	30.80	PPMC	SIDE 1	
THC	BK6800-1	14.80	PPMC	SIDE 2	

#### INSTRUMENTS USED

RATE LABEL DESCRIPTION (ML/MIN) ID 1790 D-1790 DASIBI 1790 OZONE MONITOR BENDIX 8101BX NOX ANALYZER; SN300038-2 4600 B-NOX-1 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 4000 ECD-3 AF-LAB; 12° 5% CARBOWAX-600 GC; ECD 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG 4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030 4350 CLIMET CLIMET 208 OPTICAL PART, CTR;SN:76-148 4400 MRI-388 MRI INTEGRATING NEPHELOMETER MD:15508 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS RM-121; DIMETHYLSULFOLANE GC; FID 2200 DMS-1 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID 2100 PN-1 RM-121 POROPAK-N GC; FID

4200 CNC-143 ENV ONE RICH100 CONDENS NUCLEI CTR; SN143

SAMPLING

AFF-114 JF-10 VS RJ-5 1981 AUGUST 13

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	OZONE	OZONE	NO NO	NO NO	NO2-UNC	NO2-UNC	NOX-
TIME	TIME	PPM	PPM	PPM	PFM	PPM	PPM	PP
DY HR.	(MIN)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NO
ייו הוא	(HIR)	D-1/70	D-1/70	P-KOY-I	P-40Y-1	D-MOV-I	P-MOV-I	B-140
1 600	-180	0.001	0.001	0.000	0.000	0.000	0.000	0.
1 835	-25	0.002		0.338		0.109		0.
1 845	-15		0.004		0.336		0.107	
1 1005	65	0.002		0.300		C.142		0.
1 1015	75		0.009		0.266		0.150	
1 1105	125	0.006		0.268	1000 0000 MM MAY 5100 MM	0.169	~ ~ ~ ~ ~ ~	0.
1 1115	135		0.010	***	0.225	,000 Mar. store 3010 Mar. (300	0.183	
1 1205	185	0.006		0.229		0.191	time of the page time all the state.	0.
1 1215	195		0.012		0.177		0.213	
1 1305	245	0.010		0.192		0.222		0.
1 1315	255		0.014		0.130	2300 NOW PLAN 1400 AND ADM	0.248	
1 1405	305	0.012		0.154		0.252		0.
1 1415	315		0.020		0.091		0.272	
1 1505	365	0.012		0.127		0.270	-01 201-1 1-05 1-050 1000 1000	٥.
1 1513	375	\$000 MIN 1000 MIN 1000 MAN	0.024		0.068		0.291	
1 1605	425	0.012	~	0.111		0.290	tings times being after paging states	0.
1 1615	435	*** *** *** ***	0.027		0.048		0.300	
2 835	1415	0.000		0.090	men odde bood cross toda sma	0.303	NAME AND SHOPS ARE GROUPS BATTLE	0.
2 845	1425		0.005		0.015		0.327	
2 1005	1505	0.031		0.068		0.317		0.
2 1015	1515		0.084		0.027		0.290	
2 1105	1565	0.056		0.042		0.330		0.
2 1115	1575		0.137		0.011	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.269	
2 1205	1625	0.090		0.025		0.341		0.
2 1215	1635		0.235		0.002	~~~~	0.220	
2 1305	1685	0.131		0.012		0.336		0.
2 1315	1695		0.371		0.000		0,137	
2 1405	1745	0.177		0.004		0.318		0.
2 1415	1755		0.431		0.000	~~~~	0.052	
2 1505	1805	0.217		0.001		0.307		٥.
2 1515	1815	~~~~	0.420		0.000	~~~~~	0.031	

2 k-1	SIDE 1 NO2-UNC PPM B-NOX-1	SIDE 2 NO2-UNC FPM B-NOX-1	SIDE 1 NOX-UNC PPM B-NOX-1	SIDE 2 NOX-UNC PPM B-NOX-1	SIDE 1 THC FPMC BN6800-1	SIDE 2 THC PPMC BN(800-1
000	0.000	0,000	0.000	0.000	3.13	3.13
 336	0.109	0.107	0.456	0.450	30.80	14,80
	0.142		0.451		30.80	4.4.7.5
266	0,169	0.150	0.450	0.430	29.90	14.60
225	0+107	0.183		0.421	m m m	14.60
	0.191	0.213	0.436	0.407	29.90	13.90
177 	0.222	U+213	0.432		29.90	
1.30	A AAA	0.248	0.427	0.392	29.90	13.40
091	0.252	0.272	V+42/	0.377		13.10
	0.270	0.291	0.417	0.366	30.80	14.80
 068	0.290	V+4/1	0.417		29.00	
048		0.300		0.351	soft the same level first first	14.20
	0.303		0.408		29.00	12.70
015	0.317	0.327	0.392	0.342	28.10	12+/0
027		0.290		0.316		13.50
	0.330	0.269	0.379	0.281	27.20	12.70
011	0.341	V+207	0.369		27.20	and part (ex) to 1 mm
002		0.220	0.350	0.226	27.20	13.60
000	0.336	0.137		0.138		11.80
	0.318	0.052	0.328	0.052	26.30	11.80
000	0.307	V+1152	0.311		26.30	1000 day 2000 days from 4000
000	es es	0.031		0.029		12.00

AFF-114 JP-10 VS RJ-5 1981 AUGUST 13

OL DOM	E1 4 5 5 5 5 5	SIDE 1	SIDE 2		SIDE 1	SIDF 2	SIDE 1	SIDE
CLOCK TIME	ELAPSED	•	T	UV RAD	CONDENS	CONDENS	#PART>.3	<b>#</b> PART
DY HR.	TIME	DEG C	DEG C	MW/CM2	10E3/CC	10E3/CC	PART/CC	PART/
DI HK.	(MIN)	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC-143	CLIMET	CLIM
1 600	-180	21.2	21.2	** - ** ** **	0.0	0.0	0.	0
1 835	-25	25.3			0.0	dark hip. June good page page	0.	
1 845	-15		27.0			17.4		0
1 1005	65	29.7		2.09	0.8	***	1.	***
1 1015	75		31.5	2.54		13.0		î
1 1105	125	33 - 4		3.46	0.4	480 370 Mile No May 30'0	62.	
1 1115	135	749 Per tala san tela son	34.8	3.55		10.0		67
1 1205	185	37.5		3.00	0.3		192.	
1 1215	195		36.7	3.46		8.4	select marrie mann access soon, sound	245
1 1305	245	38.1		2.91	0 + 4		290.	COM 1780 300 0001
1 1315	255		39.3	2.82		6.8	***	362
1 1405	305	39.4		2.54	0.3	~	357.	
1 1415	315		37.8	2.45		5 • 4		410
1 1505	365	37.1		1.91	0.1		341.	
1 1515	373		36.1	1.77	alle alle term spine prox come	4,0		425
1 1605	425	34.7		1.18	10.1		287.	
1 1615	435		34.1	1.14		3.0		429
2 835	1415	30.6	-				4.5	
2 845	1415	30.6			0.0		10,	
2 1005			31.7	4 04		0.0		183
	1505	34.6		1.91	0.0	Mile other Mile other code code	58.	
2 1015 2 1105	1515	70 /	37.8	2.54		0.2		367
2 1105	1565	38.6		3.37	0.0	and the and the true that the	51.	
2 1205	1575		40.1	3.37		0.1		401
2 1205	1625 1635	41.3		2.73	0.0		39.	
2 1215		40.1	40.7	3.00		0.6		359
2 1303	1685 1695	40.1		2.91	0.0	***	33.	
2 1315	1745	40.4	40.4	2.91		4.7		453
2 1405	1745	40+4		2.50	0.0		43.	
		70 4	39.4	2.41		5.2	room short treat event with days	493
2 1505 2 1515	1805	39.0	70.0	1.73	0.0		61.	
2 1010	1815		38.2	1.64		3.8		490

1 NS CC	SIDE 2 CONDENS 10E3/CC	SIDE 1 #PART>.3 PAPT/CC	SIDE 2 #PART>.3 PART/CC	SIDE 1 *PART>.5 PART/CC	SIDE 2 #PART>.5 PART/CC	SIDE 1 *PART>1 PART/CC	SIDE 2 #PART>1 PART/CC
43	CNC-143	CLIMET	CLIMET	CLIMET	CLIMET	CLIMET	CLIMET
0	0.0	٥.	0.	0.	0.	٥.	0.
0		٥.		о.	The sales made shift mile same	0.	
	17.1	nine with the seek seek	0 (	0.	0,	0,	0.
5.	13.0	1,	1.	V •	0.	U ,	0,
4	13.0	62.	1 +	0.	O + 00 and and and and	0.	V +
**	10.0	13 A	67,	· · · · · · · · · · · · · · · · · · ·	0.	Age only the one processes	0.
3	10+0	192.		17,	100 mil 100 mil 100 mil	٥,	
~ ~- ~	8.4		245,	40 FT V3 WA NO. 30.	17.	1644 CHR 1887 1887 18 1987	0.
4	***************************************	290.	1000 and 200 and 1000 ar	62.		٥.	
~~	6.8		362.		97.	page made when sales the water	1.
3		357.	ware order foot space could make	95.	area must seen name how upon	2.	100 tota 300 100 730 000
	5,4	name agains also make addit after	410.	A	186.	2 May 200 to 2017 Min	8.
1		341.		91.		3.	pers same 2004 time 100 and-
	4.0	cont was not the seminor	425.		232.		19.
1		287.	AND 15 to 2000 MAN 2000 MAN	97.		3.	
	3.0	and day 2/20 1000 At 1774	429.	NAME SOME TALKS STORE SHOOT STORE	249.	years make have after 1974.	28.
0		10.		4.		0.	
	0.0	\$41 mil 144 (146 N 188	183.		19.		0.
0	the sale are the me	58.		20.		٥.	
	0.2	the set for the sec por	367.		189.	page many page area affer more	14.
0	under Guide Miller pales Allert Miller	5i.		49.	purple and and bear again that	3.	
	0.1	color start balant. Was NAPH FRANC	401.		276.		42.
0		39.		37.		11.	
0	0.6	33.	359.	26.	354.	20.	69.
O	4.7	33+	453.	£6+	346,	20.	112.
2	4./	43.	433.	29.	340+	12.	1120
· · ·	5.2	43.	493.	A. 7 +	388.	12+	149.
0	U+2	61.	7/3+	40.		8.	
	3.8		490.		381.		140.

AFF-114 JF-10 VS RJ-5 1981 AUGUST 13

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	BSCAT	BSCAT	4ER.V	AER.U	AER+N	AER.N	AER
TIME	TIME	10-4 M-1	10-4 M-1	UM3/00	UM3/CC	F ART/CC	PART/CC	UM2
DY HR.	(MIN)	MRI-388	MRI-388	TSI-023	TSI-023	TSI-023	TSI-023	TSI-
		,				, 01 010	.01 010	10/1
1 600	-180	0.2	0.2	0.	0.	403.	403.	4
1 725	-95						****	<del></del>
1 835	-25	0.1		2.		-956.		21
1 845	-15		0.1		2.		2.6E 04	
1 1005	65	1.0		3.	NPS NPS print made aude organ	5377.		111
1 1015	75	A1 Pas ser see top sur	4.6		21.		3.7E 04	
1 1105	125	2.5		6.		4069.	*** *** *** ***	14:
1 1115	135		8.1		23.		3.8E 04	
1 1205	185	4.2		8.		4809.		16;
1 1215	195		14.0		29.		3,1E 04	****
1 1305	245	6.0		7.		3771.		16.
1 1315	255		20.0		29.		2.7E 04	
1 1405	305	7.0		10.		4176.		17'
1 1415	315		25.0		20.	******	1.9E 04	***
1 1505	365	7.0		5.		3167.		13(
1 1515	375		28.0		35.		1.6E 04	
1 1605	425	5.0		6.	~~	1655.		81
1 1615	435		27.0		24.		2.0E 04	
			<del>-</del> , , ,		A. 1 7		LVIL V	
2 730	1350				**** **** *** *** ***			
2 835	1415	0.2	-	2.	**** *** *** *** ***	781.		2:
2 845	1425		2.2		2.		432.	
2 1005	1505	1.0		2.		739.		3,
2 1015	1515		8.0		8.		-590.	
2 1105	1565	1.0		2.		853,		3:
2 1115	1575		9.5		6.		3442.	***
2 1105	1625	1.0		2.		708.		2(
2 1215	1635		9.6		14.		3494.	
2 1305	1685	1.1		1.		1442.		2:
2 1315	1695		28.0		22.	# P# 00 10 10 100 10	2.1E 04	
2 1405	1745	0.8		6.		-869.		5;
2 1415	1755		50.0		60.		2.1E 04	
2 1505	1805	0.9		1.		1034.		4(
2 1515	1815		48.0		50.		2.1E 04	

SIBE 1 AER+N PART/CC TSI-023	SIDE 2 AER.N PART/CC TSI-023	SIDE 1 AER.S UM2/CC TSI-023	SIDE 2 AER.S UM2/CC TSI-023	SIDE 1 JP-10 PPM VAR 3700	SIDE 2 RJ-5(A) PPMC VAR 3700	SIDE 2 RJ-5(B) PPMC VAR 3700
403.	403.	3.	3.	2.043	and the same and the same	~ ~ ~ ~ ~ ~ ~
-956.  5377.	2.6E 04 	29. 119.	159.	2.341	0.683	0.924
4069.	3.8E 04	142. 	843.	2.248	0.772	1.087
3771.	3.1E 04 2.7E 04	166.	915.  887.		0.504	0.725
4176.  3167.	1.9E 04	179.  130.	750.	2.299	\$100 mm and and 17° 100°	000 1000 1000 000 1000 0000 000 0000 00
1655.	1.6E 04  2.0E 04	87.	815.  713.		0.629	0,893
781.	also the circ vice the tale	21.	tions again tree made after their	2.215		
739.	432.  -590.	34.	47.  153.	2.165	0.710	0.980
853. 708.	3442.	32. 20.	155.	2.106	0.710	1.003
1442.	3494.  2.1E 04	22.	234. 700.			
-869. 1034.	2.1E 04 2.1E 04	53. 40.	1212.	1.967	0.533	0.763

C 3

CLOCK	ELAPSED	SIDE 2 RJ-5(C) PPMC	SIDE 1 PAN	SIDE 2 PAN	SIDE 1 HCHO PPM	SIDE 2 HCHO PPM	SIDE 1 PART.024 PART/CC	SIDE PART. PART/
TIME DY HR.	TIME (Mîn)	VAR 3700	PPM ECD-3	PPM ECD-3	CA	CA	TSI-023	TSI-0
1 600	-180		0.000	0.000			334.	334
1 810	-50				0.002	0.000		
1 835	-25		0.000				-835.	
1 845	-15	3.481		0.000				1.6E
1 1005	65		0.000			Ages 200s, mark many year most	2505.	
1 1015	75	** ** *** ** ** **		0.000				1.3E
1 1105	125		0.000				334.	4 75
1 1115	135	4.183		0.000				1.3E
1 1200	180				0.006	0.002		
1 1205	185	_ ~	0.001				3006.	
1 1215	195			0.001				1.3E
1 1305	245		0.001				2004.	
1 1315	255 205	2.358		0.001		use this was two one of		1.0E
1 1405	305		0.000				2171.	3340
1 1415	315			0.000			1670.	3340
1 1505	365 375		0.002	0.001			10/0.	5511
1 1515 1 1605	3/J 425		0.001	0.001			1503.	2211
1 1605	430		0.001		0.013	0.004	1303+	
	435	3,229		0.000	V+U13	0.004		7849
1 1615	433	3+227		0.000			<del></del>	7047
2 810	1390				0.017	0.008		
2 835	1415		0.000				501.	
2 845	1425	3.568		0.000				0
2 1005	1505		0.000				167.	***************************************
2 1015	1515			0.001	~	gent 6045 years come report 6.74		-2505
2 1105	1565		0.001				668.	
2 1115	1575	3.380		0.000				2004
2 1200	1620				0.019	0.004		
2 1205	1625		0.001				501.	
2 1215	1635			0.001				1503
2 1305	1685		0.001				1002.	
2 1315	1695			0.001				8517
2 1405	1745		0.001				-334.	
2 1415	1755			0.002	Date			9519
2 1505	1805		0.002			<b></b>	167.	
2 1510	1810				0.013	0.006		
2 1515	1815	2.057		0.002				1.0E

SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
нсно	PART - 024	PART.024	PART.042	PART.042	PART.075	PART.075
PPM	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC
CA	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
	334.	334.	0.	0.	44.	44.
0.000						
	-635.		-87.		-178.	
		1.6E 04		6003.		3064.
	2505.		1044.		666.	
		1.3E 04		2523.		1.4E 04
	334.		870.		1687.	
		1.3E 04		6351.		1.2E 04
0.002						
	3006.		-174.		533.	
		1.3E 04		87.		8347.
	2004.		٥.		355.	
		1.0E 04	week \$100 Pers of \$1000 upon	174.		6793.
	2171.		522.		178.	
		3340.		0 +		5905.
	i670.		348.	** *** ** *** ***	89.	
		5511.		-87.		1998.
	1503.		-609.		311.	
0.004						
		7849.	** 100 - 100 - 100	174.	Por Por des des des 1111	4396.
0.008						effer asses before from another borns
	501.		348.		-39.	
		0.		87.		44.
	167.		435.	***	-89.	
		-2505.	near river tiles, sages term saves	-696.		1243.
	668.		٥.		0.	
		2004.		٥.		89.
0.004						
	501.		87.		89.	
		1503.		261.		266.
	1002.		261.		44.	
		8517.		1305.		4618.
	-334.		-783.		266.	
		9519.		261.		1421.
	167.		609.		~89.	
0.006			man open coupy major uses			****
		1.0E 04		783.		1998.

AFF-114 JP-10 VS RJ-5 1981 AUGUST 13

	CLOCK	ELADGEN	SIDE 1 PART.133	SIDE 2 PART.133	SIDE 1 PART.237	SIDE 2 PART.237	SIDE 1 PART.422	SIDE 2 PART.422	SIDE 1 PART.750	SIDE 2 PART.750
•	TIME	TIME	PART/CC							
	DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TS1-023	TSI-023
	21 mm	(112117	101 020	.01 020	101 010	101 020	131 015	101 020	101 020	131 010
	1 600	-180	24.	24.	٥.	0.	0.	٥.	٥.	0.
	1 835	-25	72.		25.		47.		٥.	
	1 845	-15		482.		49.		13.		٥.
	1 1005	65	940.		209.		13.		0.	
	1 1015	75		6411.		615.		133.		4.
	1 1105	125	1036.		111.		20.		11.	
•	1 1115	135		6579.		603.		193.		٥,
	1 1205	185	1181.		209.		40.		14.	
•	1 1215	195		8049.		884.		207.		14.
-	1 1305	245	1060.		258.		93.	~~~~	٥.	
	1 1315	255		8748.		886.		100.		28.
2	1 1405	305	892.		369.		20.		25.	
•	1 1415	315		8941.		640.		20.		11.
	1 1505	365	651.		369.		40.		٥.	
ŧ	1 1515	375		7110.		1328.		20.		74.
4	1 1605	425	313.		86.		33.		18.	
	1 1615	435		6676.		922.		67.		28.
1	2 835	1415	٥.		۰.		13.		7.	
	2 845	1425		120.		160.		20.		٥.
_	2 1005	1505	193.		12.		13.		7.	
Įυ	2 1015	1515		1133.		234.		-27.		28.
51	2 1105	1565	145.		٥.		40.		٥.	
	2 1115	1575		843.		492.		7.		7.
1	2 1205	1625	-48.		86.		-13.		7.	
	2 1215	1635		964.		381.		87.		32.
_	2 1305	1685	48.		86.		٥.		0.	
Į.	2 1315	1695		5808.		1046.		160.		٥.
	2 1405	1745	-169.		123.		7.		21.	
•	2 1415	1755		7037.		2448.		320.		95.
£	2 1505	1805	217.		123.		7.		٥.	
	2 1515	1815		6194.		1660.		387.		70.

----- NO DATA TAKEN

NOTES

A LESS THAN 100 ML. SAMPLE, PROBABLY 98 ML., SO OFF "2-5%

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0630: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 15.7 DRY BULB: 27.8 R.H.=24% DEW POINT: 4.4

0750: END FILL.

0803: INJECTED 11.0 ML. NO2.

0805: INJECTED 12.0 ML. NO.

0807: INJECTED 22.5 ML. PROPENE.

0810: MIX BAG.

0900: UNCOVER BAG (T=0).

0905: WEATHER: CLEAR AND SUNNY.

1400: RUN OVER, BAG DUMPED.

T=0 AT 900 FST

BAG NO. 23 USED

ID INST. AVERAGE S.DEV UNITS

VALUE

T DORIC-1 34.5 9.2 DEG C

INSTRUMENTS USED

552

ID LABEL DESCRIFTION

1790 D-1790 DASIBI 1790 DZONE MONITOR

4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2

1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 51479

CLOCK	ELAPSED	OZONE	NO	NO2-UNC	NOX-UNC	T
TIME	TIME	PPM	PPM	PPM	FPM	DEG C
DY HR.	(MIN)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	DOPIC-1
1 850	-10	0.004	0.186	0.174	0.372	28.0
1 1400	300	0.660	0.001	0.202	0.208	41.0

---- NO DATA TAKEN

AFF-116 RJ-5 VS. N-BUTANE 1981 AUGUST 18

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0445: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 14.3
       DRY BULB: 21.5 R.H.=45%
                                 DEW POINT: 8.7
 0556: END FILL.
 0631: INJECTED 5.0 ML. NO2.
 0633: INJECTED 18.0 ML. NO.
 0636: MIX AND DIVIDE BAG.
 0644: INJECTED 270 MICROLITERS RJ-5 AT 250
       DEGREES C FOR 30 MINUTES INTO SIDE A.
 0650: INJECTED 125 ML. N-BUTANE INTO SIDE B.
 0655: MIX SIDE B.
 0717: MIX SIDE A.
 0900: UNCOVER BAG (T=0).
 0905: WEATHER: SUNNY AND HAZY.
 1620: RUN OVER.
T=0 AT 900 PST
BAG NO.
        23 USED
 ID
         INST.
                 AVERAGE S.DEV UNITS
                  VALUE
r
        DORIC-1
                  31.5
                           5.7
                                   DEG C
                                           SIDE 1
T *
        DORIC-1
                  31.7
                          5.6
                                   DEG C
                                           SIDE 2
UV RAD
        FPPLEY-2 2.35
                          0.69
                                   MW/CM2
```

ID	INST.	INITIAL	STINU	
		CONC.		
סא	3-NOX-1	0.354	PPM	SIDE 1
NO	B-NOX-1	0.354	PPM	SIDE 2
NO2-UNC	B-NOX-1	0.109	FPM	SIDE 1
NO2-UNC	B-NOX-1	0.109	PPM	SIDE 2
THC	BK6800-1	12,60	PFMC	SIDE 1
THC	BK6800-1	28,30	PPMC	SIDE 2
N-C4	VA1400-7	5.4740	PPM	SINE 2

#### INSTRUMENTS USED

ID	LABEL	DESCRIPTION
1790	D-1790	DASIBI 1790 OZONE MONITOR
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030
4350	CLIMET	CLIMET 208 OPTICAL PART. CTR; \$N:76-148
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD: 1550B
4200	CNC-143	ENV ONE RICH100 CONBENS NUCLEI CTR; SN143
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID
2100	PN-1	RM-121 POROPAK-N GC; FID
1400	VA1400-7	RM-121; C20-M/DC-703 GC; FID
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID
3000		CHROMOTROPIC ACID HCHO ANALYSIS
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG
4850	BK6800-1	BECKMAN CO, HC ANALYZER 3N:100015D
1800	DORIC-1	DORIC TEMPERATURE INDICATOR; SN 61479
4000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 SC; ECD

AFF-116 RJ-5 VS. N-BUTANE 1981 AUGUST 18

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE
CLOCK	ELAPSED	OZONE	OZONE	ИО	NC	NO2-UNC	NO2-UNC	NOX-L
rime	TIME	PPM	PPM	PPM	PPM	PPM	PPM	PPM
DY HR.	(MIN)	D-1790	D-1790	BNOX-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX
1 605	-175	0.000	0.000	0.000	0.000	0.000	0.000	0.0
1 835	-25	0.000		0.354		0.109		0 + 4
i 845	-15		0.000		0.354		0.109	
1 1005	65	0.004		0.297		0.143		0.4
1 1015	75		0.001	1000 Pint and their tile 1445	0.258		0.191	
1 1105	125	0.004		0.257		0.170		0.4
1 1115	135		0.006		0.189		0.255	
1 1205	135	0.007		0.212		0.199		0.4
1 1215	195		0.016		0.121		0.318	
1 1305	245	0.011		0.167		0.229	note tolar rate none nate press	0.4
1 1315	255		0.033		0.063		0.375	
1 1405	305	0.015		0.127	*** *** *** *** ***	0.260		0 - 4
1 1415	315		0.072		0.031		0.402	
1 1505	365	0.019		0.092		0.282		0.3
1 1515	375		0.108		0.015		0.410	
1 1605	425	0.020		0.070		0.291		0.3
1 1615	435		0.130		0.010		0.410	

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E 1 UNC M (X-1	SIDE 2 NO2-UNC PPM B-NOX-1	SIDE 1 NOXUNC PPM B-NOX-1	SIDE 2 NOX-UNC PFM B-NOX-1	SIDE 1 THC FPMC BN6800-1	SIDE 2 THC PPMC BN6800-1
100 109 143  170  199  229  260 	0.000 0.109 0.191 0.255 0.318 0.375 0.402	0.000 0.471 0.453 0.441  0.430  0.413  0.402 	0.000 0.473 0.470 0.468 0.459 0.450 0.439	14.80 14.60 14.10 13.00 12.60	2.51 28.30 29.80 29.10 29.80 29.10 29.10 29.10
.291	0.410	0.371	0.421	12.60	29.10

AFF-116 RJ-5 VS. N-BUTANE 1981 AUGUST 18

			SIDE 2	SIDE 2	SIDE 1	SIDE 2		SIDE 1	SII
C	CLOCK	ELAPSED	N-C4	N-C4	T	T	UV RAD	CONDENS	CONI
	TIME	TIME	PPM	PPM	DEG C	DEG C	MW/CM2	10E3/CC	10E;
DY	HR.	(MIN)	VA1400-7	DMS-1	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC.
1	605	-175		0.0008	20.7	20.7		0.0	(
1		-75	5.474	6.361					······································
1	835	-25			24.7			12.7	
1		-15				24.7			ŧ
1	1005	65			28.7		2.09	10.0	
1	1015	75	5.391			30.6	2.41		•
	1105	125			32.0		2.82	8.8	
1	1115	135	5.340			32.8	2.73		(
1	1205	185			34.1		2.96	7.2	
	1215	195	5.308			35.2	3.05		(
	1305	245			36.9		3.00	5.6	
	1315	255	5.267			36.5	3.00		t
1	1405	305			36.8		2.59	4.6	
1	1415	315	5.215			36.6	2.50		(
1	1505	365			36.0	-	1.91	3.6	
1	1515	375	5.194			35.6	1.73		t
1	1605	425			33.3		1.09	3.0	
1	1615	435	5.184	5.960		32.8	1.00		t

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UV RAD MW/CM2 EPPLEY-2	SIDE 1 CONDENS 10E3/CC CNC-143	SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 #PART>.3 PART/CC CLIMET	SIDE 2 #PART>.3 PART/CC CLIMET	SIDE 1 #PART>.5 PART/CC CLIMET	SIDE 2 #PART>.5 PART/CC CLIMET
gain agai pam bha han bha	0.0	0.0	1.	1.	· · · · · · · · · · · · · · · · · · ·	0,
	12.7	0.0	0.	0.		0.
2.09 2.41	10.0	0.0	1.	0.	0.	0.
2.82 2.73	8.8	0.0	79.	0.	0.	٥.
2.96 3.05	7.2	0,0	257.	0.	21.	0.
3.00 3.00	5.6	0.0	366.	0.	106.	0.
2.59	4.6	0.0	410.	0.	193.	0.
2.50 1.91	3.6	reas name than once about 4000	428.		245.	
1.73 1.09	3.0	0.0	435.	1.	266.	
1.00		0.0		1.		٥.

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AFF-116 RJ-5 VS. N-BUTANE 1981 AUGUST 18

		STDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	<b>‡</b> PART>1	#PART>1	BSCAT	BSCAT	AER.V	AER.V	AER
TIME	TIME	PART/CC	PART/CC	10-4 M-1	10-4 M-1	UM3/CC	UM3/CC	PART
DY PR.	(MIN)	CLIMET	CLIMET	MRI-388	MRI-388	TSI-023	TSI-023	TSI-
1 605	-1 <i>7</i> 5	٥,	0.	0.0	0.0	1.	1.	44
1 835	-25	٥.		0.2		4.	273 Mer 100 Ht 300 Mes.	2.8
1 845	-15	*** *** *** ***	0.		0.2		Ö,	
1 1005	65	٥.		3.9		19.		4.5
1 1015	75		0.		0.2		3.	
1 1105	125	0.		7.5	*** *** *** *** ***	18.		3.0
1 1115	135		0.		0.2		2.	
1 1205	185	٥.		13.0		27.		2.6
1 1215	195		0.		0.2		1.	
1 1305	245	1.		18.0		25.		2.2
1 1315	255		0.		0.2	**************	2.	
1 1405	305	9.		23.0		28.		2 + 41
1 1415	315		٥.		0.1		-5.	
1 1505	365	25.	n= n= m	26.0		24.		2 - 41
1 1515	375	***	٥.		0.1		2.	
1 1605	425	36,		28.0		21.	~ ~ ~ ~ ~ ~ ~	2.1
1 1615	435		0.		0.0	***************************************	6.	

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SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
AER.V	AER.V	AER.N	AFR N	AER.S	AER.S
UM3/CC	UM3/CC	PART/CC	PART/CC	UM2/CC	UM2/CC
S1-023	TSI-023	TSI-023	TS1 -023	TSI-023	TSI-023
1.	1.	449.	449.	9.	9.
4.		2.8E 04		160.	
	0.		651.		8.
19.		4.5E 04	<del></del>	795.	
	3.		483.		29.
18.		3.0E 04	*** *** *** *** ***	800.	
	2.		526.		23.
27.		2.6E 04		916.	
	1.		372.		15.
25.		2.2E 04		883.	
	2.		609.		15.
28.		2.4E 04		875.	~ ~ ~ ~ ~ ~
	-5.		-3037.		-60.
24.		2.4E 04		801.	to year date gove many gove
	2.		-1932.		16.
21.	*** *** *** *** ***	2.1E 04		705.	and other than print and disk
	6.		1735.		17.

AFF-116 RJ-5 VS. N-BUTANE 1981 AUGUST 18

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE
CLOCK	ELAPSED	(A)2~LA	RJ-5(A)	RJ~5(B)	RJ-5(B)	RJ~5(C)	RJ-5(C)	FAN
TIME	TIME	PPMC	PPMC	PPMC	PPMC	PPMC	PPMC	PPM
DY HR.	(MIN)	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	ECD-3
1 605	-175					-		0.00
1 725	-95	0.558		0.795		2.460		
1 810	-50			~				
1 835	-25							0.00
1 845	-15		0.234		0.322		0.945	
1 1005	65	0.952		1.303		4.987		0.00
1 1015	75							
1 1105	125	0.619		1,173		4.277		0.00
1 1115	135							
1 1200	180					***************************************		
1 1205	185	0.878		1.187		4.086		0.00
1 1215	195							
1 1305	245						~	0.00
1 1315	255					~		
1 1405	305	0.775 A		1.175 A		3.986 A		0.00
1 1415	315							
1 1505	365	0.553 B		0.954 B		3.666 B		0.000
1 1515	375	** ** ***						~ · · · · ·
1 1605	425	0.508 A		0.707 A		2.314 A		0.001
1 1610	430				~~~~			
1 1615	435							

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2	SIDE 1	SIDE 2	SIDE 1	SIDE 2 PAN	SIDE 1 HCHO	SIDE 2 HCHO
B)	RJ-5(C)	RJ-5(C)	PAN PPM	PPM	FFM	PPM
	PPMC	PPMC				
700	VAR 3700	VAR 3700	ECD-3	ECD-3	CA	CA
			0.000	0.000		
_ <del>_</del>	2,460					
					0.019	0.004
			0.000			
22		0.945		0.000		
	4.987		0.000			ope may belt mad mad
				0.006		
	4.277		0.001			
				0,008		
		pag 151 har has non min			0.017	0.015
	4.086		0.001			
	~	for helps such while shift addition		0.013		
		~ ~ ~ ~ ~ ~	0.001			
	*** *** *** *** ***			0.018		
	3.986 A		0.001			
				0.020		
	3.666 B		0.001			
				0.024		and the last field and
	2.314 A		0.002		·	
<b></b>					0.017	0.019
				0.028		

AFF-116 RJ-5 VS. N-BUTANE 1981 AUGUST 18

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 PART.024 PART/CC TSI-023	SIDE 1 PART.042 PART/CC TSI-023	SIDE 2 PART.042 PART/CC TSI-023	SIDE 1 PART.075 PART/CC TSI-023	SIDE 2 PART.075 PART/CC TSI-023	SIDE PART. PART/U TSI-0'
1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1105 1 1205 1 1215 1 1305 1 1315 1 1405 1 1515 1 1605 1 1615	-175 -25 -165 725 1235 1975 1975 245 2505 365 425 435	334. 2.0E 04 1.4E 04 3841. 3340. 1336. 8684. 1.2E 04 1.1E 04	334. 167. 334. 167. -2672. -1837.	87. 4872. 2610. 0. 261. 957. -1392.	87. 435. 87. 261. 174. 435. -37. 87. 2175.	0. 2531. 2.4E 04 1.8E 04 1.4E 04 9812. 4396. 4174.	0. 0. 0. 44. 178. 0. -311. -222.	24. 603. 4073. 7206. 8339. 9664. 8700. 8001.

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£ 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
.042	PART,075	PART.075	PART+133	PART+133	PART+237	PART.237
/00	PART/CC	PART/CC	PARTICO	PART/CC	FART/CC	PART/CC
023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
7.	0.	٥.	24.	24.	0.	0.
<b></b>	2531.		603.		0.	
5.		0.		24.		25.
	2.4E 04	Name and a street legal (1784) desire	4073.		172,	
7.		0.		48.		٥.
	1.8E 04		7206.		234.	
1,		44.		0.	-	37.
	1,4E 04		8339.		529.	
4.		178.		Ŏ.		0.
	9812.		9664.		652.	~ ~ ~ ~ ~ ~
55.		0.		0.		٥.
	1396·		8700.		1009.	.,
37.		-311.		120.		-37.
<b>&gt;</b>	4174.	200 mm pm2 mm max pm2	8001.		1181.	
β7·		-322.		0.		٥.
	1243.		6483.		1611.	
75.		٥.	-	-265.		- 197.

AFF-116 RJ-5 VS. N-BUTANE 1981 AUGUST 18

		SIDE 1	SIDE 2	SIDE 1	SIDE 2
CLOCK	ELAPSED	PART.422	PART.422	PART.750	PART.750
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023
1 605	-175	0.	0.	4.	4 +
1 835	-25	13.		7.	
1 845	-15		0.		0 +
1 1005	65	80.		18.	
1 1015	75		ο.	refer toda dega men dest som	14.
1 1105	125	7.		14.	
1 1115	135		13.		4;
1 1205	185	87.		32.	
1 1215	195		20.		0.
1 1305	245	7.		28.	
1 1315	255		Ö.	***	7.
1 1405	305	173.		11.	
1 1415	315		-33,	234 Mar dave make most plan	-18.
1 1505	365	87.		7.	-
i 1515	375		40.		0.
1 1605	425	13.		4.	
1 1615	435		-13.		35.

## NOTES

- A HEAT CLEANED SYRINGE BEFORE SAMPLING.
- B PRESSURE ROSE SO COLUMN FLOW CHANGED--MAY HAVE AFFECTED AREAS.

0825: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 20.8 C DFY BULB: 32.6 C R.H.=34% DEW POINT: 14.4 C 0937: END FILL.

0950: INJECTED 6.2 ML. NO2. 0952: INJECTED 20.0 ML. NO.

0954: INJECTED 0.46 ML. PROPANE AND 0.46 ML. PROPENE.

0957: MIX BAG.

1100: UNCOVER BAG (T=0).

1105: WEATHER: SUXNY AND HOT.

1300: RUN OVER.

1315: BAG DUMPED AND REMOVED!

#### RESULTS:

CALC. AV. OH = 30,8*D LN(PROPANE/PROPENE)/DT = 0,081 PPT CALC. RAD. INPUT = 16.0*(AVG. 9H)*(50+MIN. AVG. NO2) = 0.159 PPB/MIN-D(NO)/DT = 0.13 PPB/MIN

T=0 AT 1100 PST

BAG NO. 23 USED

AVERAGE In INST. S.DEV UNITS VALUE DORIC-1 35.7 2.5 DEG C UV RAD EPPLEY-2 3.39 9.16 MW/CM2

INITIAL UNITS ID INST. CONC. B-NOX-1 0.380 PPM NO2-UNC B-NOX-1 0.118 PEM PROPANE DMS-1 0.0116 PFM PROPENE DMS-1 0.0087 PPM

#### INSTRUMENTS USED

10 LAREL DESCRIPTION 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2100 PN-1 RM-121 POROPAK -N GC; FID DASIBI 1790 OZONE MONITOR 1790 N-1790 4600 B-NDX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG 4000 ECD-3 AF-LAB; 12° 5% CARBOWAX-600 GC; ECD 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS

AFF-117 NOX-AIR IRRADIATION 1981 AUGUST 19

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	0ZONE PPM D-1790	NO PPM B-NOX-1	NO2-UNC FPM B-NOX-1	科OX-UNC FPM p-NOX-1	PROPANE PPM DMS-1	PROPENE PPM DNS-1	HYDRÖ) PPT
1 1007	-53					0.0115	0.0091	0.00
1 1023	-37					0.0129	0.0102	0.07
1 1045	-15	0.000	0.380	0.120	0.500	0.0116	0.0087	-0.01
1 1100	0	0.000	0.380	0.118	0.500	0.0125	0.0096	0.0(
1 1115	15	0.000	0.378	0.120	0.500	0.0125	0.0096	0.15
1 1130	30	0.000	0.378	0.120	0.500	0.0093	0.0065	0.12
1 1145	45	0.000	0.377	0.123	0.500	0.0110	0.0072	-0.04
1 1200	60	0.000	0.377	0.124	0.500	0.0113	0.0077	0.3(
1 1215	75	0.000	0.372	0.121	0.500	0.0095	0.0056	-0.21
1 1230	90	0.000	0.370	0.124	0.500	0.0111	0.0072	0.27
1 1245	105	0.000	0.369	0.121	0.500	0.0097	0.0055	-0.0:
1 1300	120	0.000	0.363	0.125	0.500	0.0106	0.0061	-0.01

CLOCK TIME	ELAPSED TIME	HCHO PPM
DY HR.	(MIN)	CA
1 1040	-20	0.017
1 1250	110	0.002

NC	PROPANE	PROPENE	HYDROXYL	THC	T	UV RAD	PAN
	PPM	PPM	PPT	FPMC	DEG C	MW/CH2	PFM
-1	DMS-1	DMS-1		BK6800-1	DORIC-1	EPPLEY-2	ECD-3
	0.0115	0.0091	0.004	the spin part from some from			\$440 MIN MIN 1000 1000 1000
	0.0129	0.0102	0.071				
0.0	0.0116	0.0087	-0.047	2.53	32.3		0.000
00	0.0125	0.0096	0.000		31.9	3.64	
00	0.0125	0.0096	0.197		33.2	3.55	
00	0.0093	0.0065	0.123		34.8	3.37	
00	0.0110	0.0972	-0.064		36.1	3.09	
00	0.0113	0.0077	0,308		37.0	3.50	
00	0.0095	0.0056	-0.218		36.9	3.46	
00	0,0111	0.0072	0.279		37.5	3.37	
00	0.0097	0.0055	-0.018		38.0	3.28	
00	0.0106	0.0061	-0.018	2.92	39.0	3.28	0.000

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# NOX-AIR IRRADIATION 1981 AUGUST 20

0839: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 21.0 C DRY BULB: 38.0 C R.H.=20% DEW POINT: 10.9 C

0951: END FILL.

0958: INJECTED 6.2 ML. NO2.

1000: INJECTED 20.0 ML. NO.

1002: INJECTED 0.46 ML, PROPENE AND 0.46 ML, PROPANE.

1005: MIX BAG.

1100: UNCOVER BAG (T=0).

1105: WEATHER: SUNNY, CLEAR, HOT.

1300: RUN OVER, BAG DUMPED.

### RESULTS:

CALC. AVG. OH = 30.8*D LN(PROPANE/PROPENE)/DT = 0.033 PPT CALC. RAD. INPUT = 16.0*(AVG. OH)*(60+MIN. AVG. NO2) = 0.063 PPB/MIN -D(NO)/DT = 0.13 PPB/MIN

T=0 AT 1100 PST

BAG NO. 24 USED

ID	INST.	AVERAGE	S.PEV	UNITS
		VALUE		
T D	ORIC-1	39.9	2.4	DEG C
UV RAD E	PPLEY-2	4.20	0.23	MW/CM2
HYDROXYL		0.017	0.049	FFT

ID INST. INITIAL UNITS

CONC.

B-NOX-1 0.391 PFM NO NO2-UNC B-NOX-1 0.119 PFN DMS-1 0.1240 PPM PROPANE PROPENE DMS-1 0.0090 PPM

## INSTRUMENTS USED

ID LABEL DESCRIPTION

1790 D-1790 DASIBI 1790 OZONE MONITOR

4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2

1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479

4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER PAG

4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:1000150

4000 ECD-3 AF-LAB; 12° 5% CARBOWAX-600 GC; ECD

2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID

2100 PN-1 RM-121 POROPAK-N GC# FID

2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID

3000 CA CHROMOTROPIC ACID HCHO ANALYSIS

AFF-118 NOX-AIR IRRADIATION 1981 AUGUST 20

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	OZONE PPM D-1790	NO PPM B-NOX-1	NO2-UNC PPM B-NOX-1	NOX-UNC PPM B-NOX-1	PROPANE PPM DMS-1	PROPENE PPM DMS-1	LNC3/(
1 1045	-15	0.000	0.392	0.117	0.510	0.0124	0.0090	0.52
1 1100	0	0.000	0.391	0.119	0.510	0.0135	0.0101	0 + 499
1 1115	<b>i</b> 5	0.000	0.396	0.121	0.510			
1 1130	30	0.000	0.392	0.120	0.510			
1 1145	45	0.000	0.389	0.117	0.508			man sager from after a
1 1200	60	0.000	0.388	0.121	0.509			
1 1215	75	0.000	0.384	0.120	0.508	0.0129	0.0088	0.59
1 1230	90	0.000	0.386	0.121	0.508	0.0123	0.0082	0.621
1 1245	105	0.000	0.378	0.119	0.500	0.0136	0.0091	0.60:
1 1300	120	0.000	0.380	0.121	0.500	0.0135	0.0089	0.62
CLOCK TIME DY HR.	ELAPSED TIME (MIN)	HCHO PPM CA	ACETALD PFM 10'C-600					

TIME TIME PPM PFM
DY HR. (MIN) CA 10'C-600

1 1040 -20 0.008 ---1 1245 105 ---- 0.0085
1 1253 113 0.004 ----

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X-UNC PPM	PROPANE PPM	PROPENE PPM	LNC3/C3=	THC PPMC	T DEG C	UV RAD MW/SM2	PAN PPM
NOX-1	DMS-1	DMS-1		BK6800-1	DORIC-1	EPPLEY-2	ECD-3
0.510	0.0124	0.0090	0.5230	3.57	36.6		0.001
0.510	0.0135	0.0101	0.4990		36.6	4.27	
0.510					37.5	4.36	
0.510			<b></b>		39.2	4.45	
0.508					39.8	4.41	
0.509					40.7	4.27	
0.508	0.0129	0.0088	0.5930		41.2	4.27	
0.508	0.0123	0.0082	0.6220		42.3	4.00	
0.500	0.0136	0.0091	0.6020		42.2	3.91	
0.500	0.0135	0.0089	0.6250	4.21	42.8	3.82	0.000

# PROPENE - NOX CONDITIONING 1981 AUGUST 21

0615: FILL STARTED. WE: 6.0 DRY: 0.0 WET BULB: 18.5 C DRY BULB: 31.8 C R.H.=27% DEW POINT: 9.7 C

0730: END FILL.

0743: INJECTED 6.2 ML. NO2.

0745: INJECTED 20.0 ML , NO.

0747: INJECTED 22.5 ML. PROPENE.

0750; MIX BAG.

0900: UNCOVER BAG (T=0).

0905: WEATHER: CLEAR, HOT, AND SUNNY.

1330: END RUN, DUMP BAG.

T=0 AT 900 PST

BAG NO. 24 USED

ID INST. AVERAGE S.DEV UNITS
VALUE
T DORIC-1 39.5 5.5 DEG C
UV RAD EPPLEY-2 3.44 0.57 MW/CM2

ID INST. INITIAL UNITS

CONC.

NO B-NOX-1 0.371 FFM NO2-UNC B-NOX-1 0.128 FFM

## INSTRUMENTS USED

ID LABEL DESCRIPTION

1790 D-1790 DASIBI 1790 OZONE MONITOR

4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2

1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479

4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG

4000 ECD-3 AF-LAB; 12° 5% CARBOWAX-600 GC; ECD

2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2100 PN-1 RM-121 POROPAK-N GC; FID

2920 10'C-600 RM-121; 10' 10% CARBOWAX-600 GC; FID

3000 CA CHROMOTROPIC ACID HCHO ANALYSIS

	LOCK	ELAPSED TIME	OZONE PPM	NO PPM	NO2-UNC PPM	NOX-UNC PPM	PROPENE PPM	T DEG C	UV R MW/C
IJΥ	HR.	(MIN)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	DMS-1	DORIC-1	EPPLE
1	800	-60					0.4588		
1	830	-30			-		_ ~ ~ ~ ~ ~ _		
1	845	-15	0.000	0.371	0.125	0.500		32.6	
1	900	0	0.000	0.371	0.128	0.500		31.9	2.6
1	1000	60	0.002	0.282	0.190	0.495		38.3	3.4
1	1100	120	0.013	0.191	0.310	0.472		41.0	4.0
1	1200	180	0.115	0.022	0.397	0.422		43.0	4.0
1	1300	240	0.353	0.008	0.337	0.343		44+6	3.4
1	1320	260				~~~~~			
1	1330	270	0.463	0.008	0.307	0.312	0.0477	45.1	3.0

NO DATA TAKEN

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18.5 C

T	UV RAD	PAN	HCH0	ACETALD
DEG C	MW/CM2	PPM	PPM	PPM
DORTC-1	EPPLEY-2	ECD-3	CA	10'C-600
				0.0067
ATTAC AND ADD ADD TO THE SAME			0.167 A	
32.6		0.000		
31.9	2.63			
38.3	3,41			~
41.0	4.09			
43.0	4.05	···		
44.6	3.46			
			0.103	
45.1	3.00	0.059		
	DEG C DORTC-1  32.6 31.9 38.3 41.0 43.0 44.6	DEG C MW/CM2 DORIC-1 EPPLEY-2 32.6 31.9 2.63 38.3 3.41 41.0 4.09 43.0 4.05 44.6 3.46	DEG C MW/CM2 PPM DORTC-1 EPPLEY-2 ECD-3  0.000 31.9 2.63 38.3 3.41 41.0 4.09 43.0 4.05 44.6 3.46	DEG C MW/CM2 PPM PPM PPM CA

AFF-119 PROPENE - NOX CONDITIONING 1981 AUGUST 21

NOTES

A POSSIBER CONTAMINATION:

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AFF-120 OZONE DECAY 1981 AUGUST 21

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DAY 1 (AUGUST 21)

1506: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 21.7

DRY BULB: 38.2 R.H.=22%

1602: INJECTED 9.3 LITERS OZONE ("2.2%) WHILE BAG WAS FILLING.

1617: END FILL.

1619: MIX BAG.

DAY 3 (AUGUST 23)

1050: BAG 80% FULL.

DUMPED AFTER LAST OZONE READING.

RESULTS:

OZONE DECAY RATE = 0.44 %/HR

T=0 AT 0 PST

INSTRUMENTS USED

ID LABEL DESCRIPTION
1790 D-1790 DASIBI 1790 OZONE MONITOR

CLOCK ELAPSED OZONE TIME TIME PPM DY HR. (MIN) D-1790

1 1630 0 3.010

3 1050 2540 2.498

----- NO DATA TAKEN

AFF-121 NOX-AIR IRRADIATION 1981 AUGUST 24

0745: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 20.8 C DRY BULB: 36.1 R.H.=24% DEW POINT: 11.9%

0856: END FILL.

0909: INJECTED 6.2 ML. NO2.

0911: INJECTED 20.0 ML. NO.

0913: INJECTED 0.46 ML. PROPANE AND 0.46 ML. PROPENE.

0916: MIX BAG.

1100: UNCOVER BAG (T=0).

1105: WEATHER: HOT AND SUNNY.

1300: RUN OVER.

### RESULTS:

CALC. AVG. OH =  $30.8 \times D$  LN(PROPANE/PROPENE)/DT = 0.032 PPT CALC. RAD. INPUT =  $16.0 \times (AVG.OH) \times (60+MIN.AVG.NO2) = 0.062$  PPB/MIN -D(NO)/DT = 0.07 PPB/MIN

T=0 AT 1100 PST

BAG NO. 24 USED

ID	INST.	AVERAGE	S.DEV	UNITS
		VALUE		
T	DORIC-1	40.7	1.8	DEG C
UV RAD	EPPLEY-2	4.01	0.50	MW/CM2
ID	INST.	INITIAL	UNITS	
		CONC.		
NO	B-NOX-1	0.360	PPM	
NO2-UNC	B-NOX-1	0.125	PPM	
PROPANE	DMS-1	0.0127	PPM	
PROPENE	DMS-1	0.0102	PPM	

# INSTRUMENTS USED

ID L	ABEL DESCR	RIFTION
1790 D-	1790 DASIR	RI 1790 OZONE MONITOR
4600 B-	NOX-1 BENDI	X S101BX NOX ANALYZER; SN300038-2
1800 DC	RIC-1 DORIC	: TEMPERATURE INDICATOR, SN 61479
4131 EF	PLEY-2 EPPLE	Y 14290 UV RADIOMETER; UNDER BAG
4850 BK	6800-1 BECKM	MAN CO, HC ANALYZER SN:100015D
4000 EC	D-3 AF-LA	AB; 12° 5% CARBOWAX-600 GC; ECD
2200 DM	IS-1 RM-12	21; DIMETHYLSULFOLANE GC; FID
2100 PN	l-1 RM-12	?1 POROPAK-N GC; FID
2920 10	/C-600 RM-12	21; 10' 10% CARBOWAX-600 GC; FID
3000 CA	CHROM	MOTROPIC ACID HCHO ANALYSIS

AFF-121 NOX-AIR IRRADIATION 1981 AUGUST 24

CLOCK TIME	ELAPSED TIME	OZONE PPM	NO PPM	NO2-UNC PPM	NOX-UNC PPM	PROPANE PPM	PROPENE PPM	LNC3/CT
DY HR.	(HIN)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	DMS-1	DMS-1	
1 930	-90		and a second right with the		sam othe unit when Pile store	0.0127	0.0102	0,4200
1 1000	-60					0.0110	0.0082	0.493(
1 1020	-40					0.0120	0.0095	0.438(
1 1045	-15	0.000	9.361	0.125	0.498			
1 1100	0	0,000	0.360	0.125	0.495	0.0127	0.0102	0.426
1 1115	15	0.000	0.357	0.120	0.489	0.0127	0,0100	0.441(
1 1130	30	0.000	0.358	0.122	0.491	0.0105	0.0086	0.415
1 1145	45	0.000	0.356	0.120	0.488	0.0118	0.0089	0.487(
1 1200	60	0.000	0.357	0.122	0.490	0.0095	0.0075	0.443
1 1215	. 75	0.000	0.357	0.121	0.488			
1 1230	90	0.000	0.353	0.118	0.482	0.0103	0.0076	0.514
1 1245	105	0.000	0.351	0.122	0.486	0.0102	0.0074	0.525(
1 1300	120	0,000	0.351	0.122	0.481	0.0126	0.0089	9.5470
man mandada	W. 46655		4.75F W A 1 W					
CLOCK	ELAPSED	HCHO	ACETALD					
TIME	TIME	PPM	PPH					
DY HR.	(MIN)	CA	10'6-600					

0.0056

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1 1250 110 0,000 NO DATA TAKEN

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PPM PPM NS-1	PROPENE PPM DHS-1	LNC3/C3=	THC PPMC BK6800-1	T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	PAN PPM ECD-3
0127	0.0102	0.4200		after print them have your	-	
0110	0.0082	0.4930		~~~~~		
0120	0.0095	0.4380	***************************************		may the last yet ago, ago	*** ***
			2.99	38.1		0.000
0127	0.0102	0.4260		37.8	4.55	
0127	0.0100	0.4410		38.9	4.45	
0105	0.0086	0.4150		40.6	4.36	
0118	0.0089	0.4870		41.0	4.18	~ ~ ~ ~ ~ ~ ~
0095	0.0075	0.4430	THE REY MAN SHAR SHE WAY	41.0	4,18	Pro 1074 are 104 104 117
				41.9	4.18	
0103	0.0076	0.5140		42.5	3.73	
0102	0.0074	0.5250	****	42.4	3.19	
0126	0.0083	0.5470	2.73	42.3	3.28	0.000

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PPM

PPM

PPMC

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NO

THC

NO2-UNC

B-NOX-1

B-NOX-1

BK6800-1 14.40

0.348

0.125

INSTRUMENTS USED

4000 ECD-3

3000 CA 2100 PN-1

#### RATE LABEL DESCRIPTION (ML/MIN) ID BENDIX 8101BX NOX ANALYZER; SN300038-2 4600 B-NOX-1 DASIBI 1790 OZONE MONITOR 1790 D-1790 4250 BYRON BYRON 401 HYDROCARBON ANALYZER 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG 4200 CNC-143 ENV ONE RICH100 CONDENS NUCLEI CTR; SN143 4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030 4350 CLIMET CLIMET 208 OFFICAL PART. CTR; SN: 76-148 MRI INTEGRATING NEPHELONETER MD:1550B 4400 MRI-388 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID

AF-LAB; 12° 5% CARBOWAX-600 GC; ECD

CHROMOTROPIC ACID HCHO ANALYSIS

2100 PN-1 RM-121 POROPAK-N GC; FID 4850 BK6800-1 BECKMAN CO; HC ANALYZER SN:100015D SAMPLING

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AFF-122 DIESEL, 4-DAY STATIC 1981 AUGUST 25

CLO			ZONE	NO	NO2-UNC	NOX-UNC	NMHC	THC	Ŧ
TI			PPM	PPM	PPM	PPM	PPMC	PPMC	I) E
DY H	R. (M	IIN) D-	-1790 B	-NOX-1	B-NOX-1	B-NOX-1	BYRON	BK6800-1	DORI
1 7	05 -1	.15 (	0.000	0.000	0.000	0.000	*** *** *** ***		27
1 8	45	-15 (	0.077	0.348	0.125	0.481		14.40	34
1 10	05		0.099	0.042	0.347	0.402		11.80	41
1 11	05 1	.25 (	0.391	0.000	0.218	0,220	<i>**</i> * * * * * * * * * * * * * * * * * *	13.80	43
1 12	05 1	.85 (	0.528	0.000	0.087	0.087		13.70	45
1 13	05 2	45 0	0.514	0.000	0.047	0.047		11.80	46
1 14		io5 (	0.468	0.000	0.031	0.031		12.50	45
1 15	05 3	65 0	0.420	0.000	0.027	0.027	23.20	12.60	43
1 16	05 4	25 (	282.0	0.000	0.022	0.022	21.00	13.40	41
		85 0	.236	0.003	0.020	0.022	19.10	9.05	33
		45 0	0.223	0.001	0.020	0.021	20.70	9.05	36
2 10		05 0	).217	0.000	0.021	0.021	18.80	11,00	40
2 110			0.217	0.000	0.022	0.022	20.60	11.50	44
2 12			).221	0.000	0.023	0.023	18.90	11.60	45
2 13			).216	0.000	0.021	0.021	19.70	12.50	46
2 140			.208	0.000	0.021	0.021	19.60	11.40	46
2 15			198	0.000	0.021	0.021	19.00	12.40	44
2 160	05 18	65 0	184	0.000	0.020	0.020	18.20	12.10	41
	05 28		.105	0.000	0.017	0.019	18.70	9.36	33
	05 28		.023	0.151	0.280	0.458	14.20	10.36	37
3 100		_	131	0.020	0.371	0.398	15.90	9.52	42
3 11(			.439	0.004	0.294	0.301	15.40	9.75	45
3 120			.727	0.004	0.171	0.177	13.80	9.17	47
3 13(			.815	0.000	0.100	0.101	16.00	9.75	48
3 140		-	1.785	0.002	0.062	0.066	14.50	8.48	48
3 150			• 733	0.000	0.044	0.047	13.30	9.05	46
3 160	05 33	05 0	• 682	0.000	0.039	0.040	13.50	9.52	42
4 80			.497	0.000	0.030	0.031	15.40	9.17	33.
4 90			.468	0.003	0.036	0.039	13.80	9.05	37
4 100			438	0.003	0.037	0.040	13.20	9.29	41
4 110			+412	0.000	0.037	0.038	13.40	10.10	44
4 120			• 393	0.002	0.039	0.040	14.00	8.94	46
4 130			.374	0.003	0.038	0.039	14.00	8.94	47
4 140			.354	0.002	0.038	0.040		8.71	45.
4 150	05 46	85 0	.334	0.002	0.037	0.039	12.40	8.48	44.

---- NO DATA TAKEN

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HC.	NMHC	THC	Т	UV RAD	CONDENS	#PART>.3	#PART'-5
. –	PPMC	PPMC	DEG C	MW/CM2	10E3/CC	PART/CC	PART/CC
-1	BYRON	BK6800-1	DORIC-1	EPPLEY-2	CNC-143	CLIMET	CLIMET
00		LES DIAM MINE APPR SINCE SAME	27.4		0.0	0.	0.
81		14.40	34.5		30.0	541.	498 •
02		11.80	41.0	1.82	22.0	515.	438 .
20		13.80	43.7	3.64	19.5	525.	483.
87		13.70	45.6	3.05	16.9	525.	496.
47		11.80	46.4	3.46	13.2	528.	498.
31		12.50	45.3	2.73	10.2	527.	493.
27	23.20	12.60	43.5	1.68	7.6	525.	481.
22	21.00	13.40	41.6	1.14	6.2	522.	468+
22	19.10	9.05	33.0	1.37	2.0	88.	76+
21	20.70	9.05	36.5	2.26	1.8	247.	76+
21	18.80	11.00	40.6	2.14	1,2	368.	163+
22	20.60	11.50	44.i	3.55	1.1	397.	218.
23	18.90	11.60	45.7	3.23	0.9	448.	251.
21	19.70	12.50	46.9	3.09	0.8	475.	257+
21	19.60	11.40	46.4	2.45	0.6	421.	320.
21	19.00	12.40	44.5	1.82	0.5	364.	319.
20	18.20	12.10	41.4	1.05	0.5	315.	260.
19	18.70	9.86	33.0	1.46	1.5	5.	3+
58	14.20	10.30	37.8	2.27	0.8	291,	74.
98	15.90	9.52	42.4	1.91	0.7	428.	279 •
01	15.40	9.75	45.6	3.64	0.8	516.	430.
77	13.80	9.17	47.4	3.49	2.9	504.	440,
01	16.00	9.75	48.9	3.19	2.4	514.	436.
66	14.50	8.48	48.2	2.54	1.9	515.	433.
47	13.30	9.05	46+ છ	i.82	1.4	508.	424.
40	13.50	9.52	42.3	1.05	1.1	492+	404.
31	15.40	9.17	33.4	1.55	2.0	27.	24.
39	13.80	9.05	37.0	2.14	0.9	199.	32+
40	13.20	9,29	41.2	2.14	0.7	325.	116.
38	13.40	10.10	44.3	3.55	0.5	391.	174.
040	14.00	8.94	46.5	3.32	0.8	439.	198.
39	14.00	8.94	47,4	2.68	0.6	408+	285.
40		8.71	45.6	2.18	0.4	351.	322.
039	12.40	8.48	44.0	1.77	0 + 4	292.	265.

AFF-122 DIESEL, 4-DAY STATIC 1981 AUGUST 25

	CLOCK TIME THR.	ELAPSED TIME (MIN)	#PART>1 PART/CC CLIMET	BSCAT 10-4 M-1 MRI-388	AER.V UM3/CC TSI-023		AER.S UM2/CC TSI-023	N~C9 PPM VAR 3700	N-C1 199 199 199
1	705	-115	0.	0.0	-1.	-203.	-3.		
1	830	-30		*** == == ==				0.0117	0.00
1	845	-15	342.	80.0	40.	7.6E 04	1523.		
	1005	65	208.	83.0	60.	8.4E 04	2352.	0.0066	0.00
	1105	125	326.		4 110.	1.1E 05	4143.		0.00
	1205	185	378.		141,	1.6E 05	4522.		0.00
	1305	245	374.		125.	9.2E 04	4001.		
	1405	305	353.		127.	8.3E 04	3506.	0.0076	0.00
	1505	365	320.		88.	5.9E 04	2674.	0.0058	0.00
1	1605	425	282.	100.0	4 105.	4.4E 04	2298.		0.00
2	805	1385	2.	2.5	8.	8298.	249.		
2	905	1445	3.	7.1	11.	1.0E 04	325.		
2	1005	1505	11.	14.0	8.	1.1E 04	301.	0.0091	0.00
2	1105	1565	24.	16.5	14.	8254.	348.	0,0068	0.00
2	1205	1625	38.	17.0	9.	7681.	306.	0.0106	0.00
2	1305	1685	46.	15.0	10.	7164.	263.		
2	1405	1745	55.	12.0	12.	6436.	258.	0.0064	0.00
2	1505	1805	50.	9.5	10.	4334.	214.	0.0132	0.00
2	1605	1865	386,	7.0	7.	2230.	152.		
3	805	2825	0.	0.8	5.	3748.	159.		0.00
3	905	2885	1.	7.6	15.	6660.	298.		0.00
	1005	2945	31.	17.0	8.	7365.	297.		
	1105	3005	146.	17.0	11.	1.1E 04	300.		0.00
	1205	3065	188.	34.0	23.	2.4E 04	712.		0.01
	1305	3125	212.	50.0	28.	2.1E 04	823.		
	1405	3185	209.	46.0	27.	2.0E 04	749.		
	1505	3245	192.	34.0	30.	1.4E 04	648.		
	1605	3305	169.	28.0	22.	1.2E 04	503.		
4	805	4265	1.	1.8	5.	6141.	159.		0.00
4		4325	3.	5.2	8.	6325.	209.		· · · · ·
	1005	4385	٥٠ 6٠	8.8	14.	7732.	273.		
	1105	4445	13.	12.0	12.	7131.	253.		0.00
	1205	4505	24.	12.2	6.	6239.	204.		
	1305	4565	40.	11.0	9.	5134.	220.		
	1405	4625	49.	8.5	7.	5491.	169.		
	1505	4685	37.	7.0	11.	4226.	175.		
7	1000		Q7 •	/ • V	111	7 +	4704		

NO DATA TAKEN

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R.N T/CC -023	AER.S UM2/CC TSI-023	N-C9 PPM VAR 3700	N-C10 PPK VAR 3700	N-C11 PPM VAR 3700	N-C12 PPM VAR 3700	N-C13 PPM VAR 3700	N-C14 FPM VAR 3700
03.	-3.			0.0129	0.0152	0.0269	0.040
		0.0117	0.0065	V+V127			
6E 04	1523.		0.0071	0.0121	0.0163	0.0321	0.051
4E 04	2352.	0.0066	0.0066	0.0113	0.0165	0.0309	0.039
1E 05	4143.		0.0063	0.0109	0.0149	0.0301	0.058
6E 05	4522		V. VV03				
2E 04	4001.	0.0076	0.0061	0.0098	0.0138	0.0283	0,095
3E 04	3506.		0.0061	0.0105	0.0133	0.0260	0.037
9E 04 4E 04	2674. 2298.	0.0058	0.0065	0.0101	0.0134	0.0239	0.035
	249.	ey i waa saac cool mee book					
298+	325.						
OE 04		0.0091	0.0063	0.0105	0.0189	0.0519	0.070
1E 04	301.	0.0038	0.0062	0.0098	0.0139	0.0331	0.060
254.	348+	0.0038	0.0056	0.0092	0.0126	0.0257	0.040
81.	306.	0.0100					
64.	263. 258.	0.0064	0.0065	0.0105	0.0130	0.0252	0.038
436.	214.	0.0132	0.0657	0.0086	0.0119	0.0228	0.030
834. 230.	152.	V+V132			name done over make done under		
230+	1024						
748.	159.		0.0070	0.0093	0.0134	0.0299	0.031
560.	298.		0.0061	0.0088	0.0107	0.0178	0.021
365.	297.						
.1E 04	300.		0.0093	0.0067	0.0096	0.0162	0.024
4E 04	712.		0.0138	0.0074	0.0087	0.0151	0.024
.1E 04	823.			0,0064	0.0084	0.0146	0.020
.0E 04	749.						
4E 04	648.			0.0059	0.0072	0.0117	0.016
,2E 04	503.	100 pin 400 pin 100 min 10		1600.0	0.0063	0.0102	0.013
	150		0.0060	0.0069	0.0085	0.0168	0.017
141.	159.		V 10000	0.0050	0.0079	0.0115	0.013
ਰ25₊	209.			0.0050	0.0059	0.0103	0.012
732.	273.		0.0047	0.0057	0.0061	0.0102	0.014
131.	253.		0.0047				
239+	204.					0.0098	0.013
134.	220+						
491.	169+				0.0051	0.0076	0.009
226.	175.				.,		

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AFF-122 DIESEL, 4-DAY STATIC 1981 AUGUST 25

1401 H	06051 23							
CLOCK	ELAPSED	N-C15	FREON 12	CO	PAN	нсно	PART.024	PART.0
TIME	TIME	RAW DATA	RAW DATA	PPM	PPM	PPM	PART/CC	PAF T/C
DY HR.	(MIN)	VAR 3700	DMS-1	BYRON	ECD-3	CA	TSI-023	TSI-02:
1 705	-115		0.000	while back hash which book 1949	0.000		-334.	-609.
1 830		0,0554 B						
1 835						0.027		
1 845					0.000		4.0E 04	7395.
1 1005		0.0663			0.005		3340.	1.3E
1 1105					0.033		2.4E 04	2349.
1 1200						0.044		4504
1 1205		0.0798			0.036		9.0E 04	4524 •
1 1305					0.024		3.4E 04	-1479.
1 1405		0.0628			0.013		3.4E 04	8613.
1 1505		0.0569		2.38	0.010		2.7E 04	-1305.
1 1600						0.092	2 4 5 0 4	400
1 1605	425	0.0388	336.4	2.20	0.008		2.1E 04	609+
2 800	1380					0.387		
2 805	1385		344.1	2.70	0.004		1837.	435.
2 905	1445			2.95	0.007	and the sea has 110 100	4509.	0.
2 1005	1505	0.1171		2.98	0.004		5010.	609.
2 1105	1565	0.0884		3.04	0.004		3674.	0.
2 1200	1620					0.084	outs that and, hope system even	
2 1205	1625	0.0634		2.84	0.004		3006.	870.
2 1305	1685			3.02	0.002		3841,	٥.
2 1405	1745	0.0595		2.88	0.003		3674.	522.
2 1505	1805	0.0444		3.33	0.004	191 444	2338.	87.
2 1600	1260					0.107		
2 1605	1865		331.8	3.30	0.001		1002.	-174.
3 800	2820	~ ~ ~ ~ ~ ~				0.130		
3 805		0.0432	338.9	3.57	0.004	MC 200 24 100 TOT TOTAL	-1670.	1566.
3 905		0.0298	294.9	2.94	0.002		2839.	-174.
3 910						0.088		
3 1005	2945		274.9	2,99	0.006		2839.	261.
3 1105		0.0286		3.32	0.023		6346.	1218.
3 1200						0.126		
3 1205		0.0437		3.37	0.042	aging street state state street	1.3E 04	870.
3 1305		0.0473	the desirable and the same state	3.59	0.043		<b>6884</b>	870.
3 1405				3.87	0.026		€;350.	2958.
3 1505		0.0214		3.75	0.018		8183.	609.
3 1600						0.173		*** *** *** ***
3 1605		0.0206	281.6	3.92	0.010		7515.	0.
4 800	4260			***		0.222	per sein min sein 1900 1900	
4 805		0.0275	282+6	4.27	0.005		2338.	261.
4 905		0.0187		4.27	0.007		3006.	0.
4 1005		0.0181	-	4.34	0.009		4676.	87.
4 1105		0.0208	year your when some time to-di	4.34	0.008		4509.	٥.
4 1205				4.40	0.006	0.161	3674.	-261.
4 1305		0.0198		4.27	0.005		2672.	0.
4 1405					0.003		3340.	87.
4 1500				Jan 186 186 186 188 188		0.207		
, 4 1505		0.0150	282.1	4.44	0.005		3006.	-343.
1			<del>-</del>	•				

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-3	HCHO PPM CA	PART.024 PART/CC TSI-023	PART.042 PART/CC TSI-023	PART.075 PART/CC TSI-023	PART.133 PART/CC TSI-023	PART.237 PART/CC TSI-023	PART.422 PART/CC TSI-023
						101 023	101 V20
000		-334.		755.	-48.	74.	-40.
ļ			elite fata pros open from oven		units amond which whose assess service		time alone wine yet toom with.
	0.027	4 05 04				4500	
000 005		4,0E 04 3340,	7395.	1.3E 04	1.4E 04	1599. 1168.	200.
033		2.4E 04	1.3E 04	4.6E 04 3.8E 04	2.0E 04 4.3E 04	4858.	67. 200.
	0.044	Z+7L 07	3347+	3+0E V4	4+36 04	4030+	200+
36		9.0E 04	4524.	1.6E 04	4.2E 04		467.
024		3.4E 04	-1479.	1.2E 04	4.0E 04	6802,	374.
013		3.4E 04	8613.	3774.			687.
010		2.7E 04	-1305.			5732.	487.
	0.092						
800		2.1E 04	609.	2442.	1.3E 04	5227.	580.
	0.387		MATE 1000 1000 1000 1000 JPM				
004		1837.	435.	4218.	1494.	234.	80.
007		4509.	0.	2654.	2844.	209.	133.
004		5010.	609.	2264.	3229.	307.	27.
þ04		3674.	0.	977•	2940.	615.	27.
	0.084						
004		3006.	870+	444.	2675.	603,	93.
002		3841.	٥.	622.	2097.	590.	0.
003		3674.	522.	87.	1615.	406.	120.
004 	0,107	2338.	87.	222.	1181.	418.	73.
001	0.107	1002.	-174.	44.	916.		13.
	0.130						mater many arter than many office.
004		-1670.	1566.	2975.	699.	98.	80.
002		2839.	-174.	1154.	2555.	184.	67.
	0.088		~ ~ ~ ~ ~ ~				
004		2839.	261.	577.	3109.	566.	13.
023		6346.	1218.	266.	2289.	664.	27.
	0.126					0710 1000 Mark 1901 Name water	20'2 CASO 1500 Pic 1507 Time
042		1.3E 04	870.	2575.	5977.	1291.	140.
043		7686.	870.	1998.	6796.	1722.	107.
026		8350.	2958.	1154.	5302.	1624.	187.
018		8183.	609.	311.	3278.	1537.	207.
010	0.178	7515.	0 +	666.	2048.	1341.	207.
	0.222	,					
005		2338.	261.	2131.	1253.	111.	47.
007		3006.	0.	1243.	1735.	320.	7.
009		4676.	87.	400.	2193.	308.	33.
008		4509.	0.	444.	1615.	492.	53.
006	0.161	3674.	-261.	622.	1663.	541.	0.
005	and their state field pain park	2672.	0.	222.	1783.	406.	40.
003		3340.	87.	311.	1398.	344.	0.
005	0.207	3006.	-348.	444.	699.	394.	0,

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(	CLOCK	ELAPSED	PART.750
	TIME	TIME	PART/CC
D'	Y HR.		TSI-023
1	705	-115	0.
1	845	-15	0.
1	1005	65	63.
1	1105	125	28.
1	1205	185	56.
1	1305	245	49.
i	1405	305	67.
1	1505	365	O +
1	1605	425	130.
2	805	1385	٥.
2	905	1445	0.
22222222	1005	1505	0.
2	1105	1565	21.
2	1205	1625	-11.
2	1305	1685	14.
2	1405	1745	11.
2	1505	1805	14.
2	1605	1865	11.
3 3	805	2825	0.
3	905	2885	35.
3	1005	2945	0.
3	1105	3005	11.
3	1205	3065	0.
3	1305	3125	14.
3	1405	3185	7.
3	1505	3245	32.
3	1605	3305	7.
4	805	4265	٥.
4	905	4325	14.
4	1005	4385	35.
4	1105	4445	18.
4	1205	4505	Q.
4	1305	4565	11.
4	1405	4625	11.
4	1505	4685	32.

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NOTES

B IDENTITY OF N-C15 PEAK IS AMBIGUOUS SOMETIMES.

A ACTUALLY >100

"0615: START PURGE.

0725: DUMPED BAG, BEGIN FILL. WEY: 6.0 C DRY: 0.0

WET BULB: 17.5 C DRY BULB: 28.5 R.H.=32% DEW POINT: 9.4 C

0840: TURNED OFF PURE AIR.

0900: UNCOVERED BAG (T=0).

0905: WEATHER: WARM, CLEAR, SUNNY.

1410: RUN OVER.

RESULTS: OZONE FORMATION RATE = 17.3 PPB/HR

T=0 AT 900 PST

BAG NO. 24 USED

ID INST. AVERAGE S.DEV UNITS

VALUE

T DORIC-1 31.7 7.1 DEG C UV RAD EPPLEY-2 2.35 0.55 MW/CM2

## INSTRUMENTS USED

LABEL DESCRIPTION 1790 D-1790 DASIBI 1790 OZONE MONITOR 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG AF-LAB; 12° 5% CARBOWAX-600 GC; ECD 4000 ECD-3 4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030 4350 CLIMET CLIMET 208 OPTICAL PART, CTR; SN: 76-148 4400 MRI-388 MRI INTEGRATING NEPHELOMETER MD:1550B 4200 CNC-143 ENV ONE RICH100 CONDENS NUCLEI CTR: SN143 RM-121; DIMETHYLSULFOLANE GC; FID 2200 DMS-1 2100 PN-1 RM-121 POROPAK-N GC; FID 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS

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AFF-123 PURE AIR IRRADIATION 1981 AUGUST 31

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	OZONE PPM D-1790	NO PPM B-NOX-1	NO2-UNC PPM B-NOX-1	NOX-UNC PPM B-NOX-1	T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	CONI 10E: CNC-
1 850 1 1005	-10 65	0.000	0.000	0.001 0.002	0.005 0.006	25.4 30.3	1.96	7.
1 1035	95	0.017					1+70	34
1 1105	125	0.026						
1 1135	155	0.037						
1 1205	185	0.047						
1 1235	215	0.057					from Food comp angle made trans	
1 1305	245	0.069						
1 1335	275	0.079						<b></b> .
1 1405	305	0.088	0.000	0.000	0.011	39.4	2.73	5
CLOCK	ELAPSED	AER.V	AER.N	AER.S	METHANE	ETHENE	ETHANE	ACE1
TIME	TIME	UM3/CC	PART/CC	UM2/CC	PPM	PPM	PPM	PF
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	PN-1	PN-1	PN-1	Ph
1 850	-10	4.	3568.	64.	1.89	0.0012	0.0051	0.0
1 1005	65	11.	8.5E 04	508,	***************************************			
1 1405	305	20.	3.7E 04	750.	1.86	0.0026	C.0040	0.0

---- NO DATA TAKEN

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NMC	T	UV RAD	CONDENS	#PART>.3	#PART>.5	#PART>1	BSCAT
M X-1	DEG C DORIC-1	MW/CM2 EPPLEY-2	10E3/CC CNC-143	PART/CC CLIMET	PART/CC CLIMET	PART/CC CLIMET	10-4 M-1 MRI-388
005	25.4		0.6	4.	٥.	٥.	0.1
006	30.3	1.96	36.0	٥.	٥.	0.	0.1
						gain they save John hear gard	
				~ ~ ~ ~ ~ ~			
011	39.4	2.73	9.5	0.	٥.	٥,	2.1
ANE	ETHENE	ETHANE	ACETYLEN	ACETYLEN	PROPANE	PROPENE	I-C4
M	FPM	PPM	PPM	PPM	PPM	PPM	PPM
-1	PN-1	PN-1	PN-1	DMS-1	DMS-1	DMS-1	DMS-1
89	0.0012	0.0051	0.0012	0.0013	0.0033	0.0004	0.0023
 86	0.0026	0.0040	0.0010	0.0011	0.0029	0.0011	0.0015

AFF-123 PURE AIR IRRADIATION 1981 AUGUST 31

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	N-C4 PPM DMS-1	1-C4= PPM UMS-1	1-04= PPM DMS-1	I-C5 PPH DMS-1	N-CS PPM DMS-1	PAN PPM ECD-3	HOHO PPM CA
1 840 1 850	-20 -10	0.0009	0.0002	0.0001	0.0003	0.0002	2,000	0.00
1 1005 1 1340 1 1405	65 280 305	0.0007	0.0004	0.0001	0.0001	0.0601	0.002	0.00
CLOCK TIME DY HR.	ELAPSED TIME (MIN)	PART.237 PART/CC TSI-023	PART.422 FART/CC TSI-023	PART.750 PART/CC TSI-023				

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1 850 1 1005

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-C5 FM S-1	N-C5 PPM DMS-1	PAN PPM ECD-3	HCHO PPM CA	PART.024 PART/CC TSI-023	PART.042 PART/CC TSI-023	PART.075 PART/CC TSI-023	PART.133 PART/CC TSI-023
			0.000	سيو ميد غيد بده محد	Mark Life May rate says part		
0003	0.0002	0.000		2672.	409.	133.	72,
		~~~~~		5.8E 04	2.1E 04	3485.	1325.
~~	100, 100, 100, 100, 100, 100, 100, 100,		0.000				
0001	0.0001	0.002		1.7E 04	4611.	6615.	8507.

NO

THC

THC

NO2-UNC

NO2-UNC

B-NOX-1

B-NOX-1

B-NOX-1

BK6800-1 9.63

BK6800-1 9.40

0.132

0.143

0.071

PFM

PPM

PPM

PPMC

PPMC

```
AFF-124
DIESEL, VARIABLE NOX
1981 SEPTEMBER 1
DAY 1
        (SEPT. 1)
^0445: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 14.3 C
        DRY BULB: 20.5 C R.H.=50%
                                      DEW POINT: 10.3 C
  0615: END FILL.
  0630: LEAK FOUND IN SAMPLING LINE; REPAIRED AT 0730.
  C751: INJECTED 1100 MICROLITERS DIESEL FUEL AT 250 DEGREES C FOR 30 MINUTES.
  0858: INJECTED 2.5 ML. NO2 INTO SIDE A.
  0900: INJECTED 9.0 ML. NO INTO SIDE A.
  0910: INJECTED 1.25 ML. NO2 INTO SIDE B.
  0912: INJECTED 4.5 ML. NO INTO SIDE B.
  0915: MIX SIDE A AND SIDE B.
  1000: UNCOVER BAG (T=0).
  1005: WEATHER: SUNNY AND HOT.
  1620: END SAMPLING, DAY 1.
DAY 2
        (SEPT. 2)
  0910: UNCOVER BAG, DAY 2.
  0905: WEATHER: SUNNY AND HOT.
  1520: END RUN.
RESULTS
                      DAY 1
                                          DAY 2
-----
                      37(+-2)
AVG.T(DEG.C)
                                          36(4-3)
AVG.UV(MW/CM2)
                      2.6(+-1.0)
                                           2.9(+-0.7)
T=0 AT 1000 PST
BAG NO.
        24 USED
           INST.
                  AVERAGE
 ΙD
                          S.DEV UNITS
                   VALUE
                   34.4
T
         DORIC-1
                            5.0
                                     DEG C
                                              SIDE 1
                   34.7
Ţ
         DORIC-1
                            4.3
                                     DEG C
                                              SIDE 2
UV RAD
        EPPLEY-2 2.75
                           0.84
                                    MW/CM2
  ID
           INST.
                  INITIAL
                            UNITS
                   CONC.
NO
         B-NOX-1
                   0.377
                             PPM
                                     SIDE 1
```

SIDE 2

SIDE 1

SIDE 2 SIDE 1

SIDE 2

AFF-124 DIESEL, VARIABLE NOX 1981 SEPTEMBER 1

INSTRUMENTS USED

SAMPLING RATE (ML/MIN)

ID	LABEL	DESCRIPTION	(ML/MIN)
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
1800	DORIC-1	DORIG TEMPERATURE INDICATOR, SN 61479	
4000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 GC; ECD	
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	
4250	BYRON	BYRON 401 HYDROCARBON ANALYZER	
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC: FID	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS	
4350	CLIMET	CLIMET 208 OPTICAL PART, CTR; SN: 76-148	
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEX CTR;5N143	
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FIR	!
2100	PN-1	RM-121 POROPAK-N GC; FID	

AFF-124 DIESEL, VARIABLE NOX 1981 SEPTEMBER 1

	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE
ELAPSED	OZONE	OZONE	NO	ОИ	NO2-UNC		NOX-N
TIME	PPM	PPM	PPM	PPM	PPM		MAA
(MIN)	D-1790	D-1790	3-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX
-135	0.000	0.000	0.000	0,000	0,000	0.000	0.0
					0.143		0.5
		0.039		0.132		0.071	
	0.045		0.084		0.310		0.4
		0.176		0.008		0.154	
	0.211		0.010		0.319		0,3
		0.329		0.004		0.090	
	0.423		0.004	arm and 1945 only 1886 page	0.196		0.1
	~~~~	0.383		0.000		0.051	
	0.521		0.000		0.105		0.1
		0.370		0.000		0.041	
	0.507		0.000		0.072		0.0
				0.000		0.037	
	0.468		0.000		0.059		0.0
375		0.314		0.000		0.033	
1355	0.278		0.001		0.022		0.0
		0.192		0.000		0.016	
	0.256		0.000		0.032		0.0
		0.185		0.001		0.023	
	0.252		0.002		0.040		0.0
		0.190		0.000		0.028	
	0.264		0.001		0.042		0.0
		0.199		0.001		0.029	
	0.277		0.001		0.041		0.0
		0.206		0.001		0.029	
		~~~~	0.001		0.042		0.0
	V1202	0.205		0.000		0.030	
		V****	0.001		0.041		0.0
1755	~~~~~	0.201		0.000		0.030	
	TIME (MIN) -135 -155 -155 1255 1385 1255 1385 1365 1365 1365 13675 1565 15675 16685 1695 1745	ELAPSED TIME (MIN) OZONE PPM (MIN) D-1790 -135 0.000 -25 0.051 -15 65 0.065 75 125 0.211 135 0.423 195 245 0.521 255 305 0.507 315 365 0.468 375 1355 0.278 1365 1445 0.256 1455 1505 0.252 1515 1625 0.277 1635 1685 0.282 1695 1745 0.280	ELAPSED OZONE OZONE TIME PPM PPM (MIN) B-1790 B-1790 -135 0.000 0.000 -25 0.051 -15 0.039 65 0.065 75 0.176 125 0.211 135 0.329 185 0.423 195 0.383 245 0.521 255 0.370 305 0.507 315 0.338 365 0.468 375 0.314 1355 0.278 1365 0.192 1445 0.256 1455 0.190 1565 0.264 1575	ELAPSEB OZONE OZONE NO TIME FPM PPM PPM (MIN) D-1790 D-1790 B-NOX-1 -135 0.000 0.000 0.000 -25 0.051 0.377 -15 0.039 65 0.065 0.084 75 0.176 125 0.211 0.010 135 0.423 0.004 195 0.383 245 0.521 0.000 255 0.370 305 0.507 0.000 315 0.338 365 0.468 0.000 375 0.314 1355 0.278 0.001 1445 0.256	ELAPSED OZONE OZONE NO NO PM TIME PPM PPM PPM PPM PPM (MIN) D-1790 D-1790 B-NOX-1 B-NOX-1 -135 0.000 0.000 0.000 0.000 -25 0.051 0.377 -15 0.037 0.132 65 0.065 0.084 75 0.176 0.008 125 0.211 0.004 135 0.329 0.004 195 0.383 0.004 245 0.521 0.000	ELAPSED TIME OZONE PPM (MIN) OZONE PPM (MIN) NO PPM PPM PPM PPM PPM PPM PPM PPM PPM PP	ELAPSED TIME OZONE TIME OZONE PPM NO PPM NO PPM NO2-UNC PPM NO2-U

---- NO DATA TAKEN

DE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
סא	NO2-UNC	NO2-UNC	NOX-UNC	NOX-UNC	имнс	NMHC
PM	PPM	PPM	PPM	PPN	PPMC	PPMC
0X-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	BYRON	BYRON
.000	0.000	0.000	0.000	0.000	9.30	0.30
	0.143		0.520		10.80	-
.132		0.071		0.200		11.20
	0.310		0.411		10.90	
.008		0.154		0.162		9.90
	0.319		0.329		9.20	
.004		0.090		0.092		10.00
	0.196		0.198	-	8.80	
.000		0.051		0.051		9.50
	0.105		0.106		8.40	
.000		0.041		0.040		8.50
	0.072		0.072		8.00	
.000		0.037		0.037		8,90
	0.059		0.059		8.40	
.000		0.033		0.031		9.30
	0.022		0.024		8.40	
.000		0.016		0.017		9.80
	0.032		0.032		7.80	
.001		0.023		0.024		9.80
	0.040		0.040		8.00	
.000		0.028		0.028		8.80
	0.042		0.042		7.40	-
.001		0.029		0.029		9.00
	0.041		0.041		8.00	
.001		0.029		0.029		9.20
	0.042		0.043		7.60	
.000		0.030		0.030		8.20
	0.041		0.041		7.60	
.000		0.030		0.029		9.10
		· ·				•

AFF-124 DIESEL, VARIABLE NOX 1981 SEPTEMBER 1

			SIDE 1	SIDE 2	SIDE 1	SIDE 2		SIDE 1	SIDE
	CLOCK	ELAPSED	THC	THC	T	T	UV RAD	CONDENS	CONDE
	TIME	TIME	PPMC	PPMC	DEG C	DEG C	MW/CM2	10E3/CC	10E3/
D	Y HR.	(MIN)	BK6800-1	BK6800-1	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC-1
1	745	-135	5.70	5.70	23.8	23.8		0.1	٥,
ī		-25	9.63		30.8			8.0	
1		-15		9.40		32.7			7.
1	1105	65	9.75		35.0		3.64	7.8	
	1115	75		10.30		36.1	3.64	type your make days about taken	6.
	1205	125	9 + 40		37.1		3.59	7.5	
	1215	135		10.70		37.1	3.64		7.
1	1305	185	9.86		39.1		3.09	6.2	w
1	1315	195		9.75		38.7	3.00		6.
1	1405	245	10.90		38.3		2.68	4.8	-
1	1415	255		10.20		37.2	2.59		5.
1	1505	305	10.60		38.0		1.94	4.0	
1	1515	315		9.52		36.6	1.82		4.
1	1605	365	10.30		34.3		1.09	3.1	
1	1615	375		10.30		34.7	0.91		3.
2	835	1355	6.74		24.2			0.0	
2		1365		6.16		26.7			0.
	1005	1445	10.20		30.8		1.91	18.6	
	1015	1455		9.17		32.6	2.54		8,
	1105	1505	9.75		34.0		3.59	14.7	
2	1115	1515	~ ~ ~ ~ ~	8.94		34.9	3.64	men mark triple time more dele-	6.
2	1205	1565	9.05		36.5		3.64	11.2	AND 200 POR COR
2	1215	1575		9.52		37.0	3.55		5.
2	1305	1625	9.40		38.0		3.23	8.7	
2	1315	1635		10.10		37.7	3.09		4.
2	1405	1685	10.50		38 . 6	ert) and an ere on Me	2.68	7.0	
2	1415	1695		9.86		38.6	2.63		3.
2	1505	1745	10.00		37.6		1.96	5.3	
	1515	1755		10.90		36.7	1.87		2.

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58.

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IDE 2 T DEG C RIC-1	UV RAD MW/CM2 EPPLEY-2	SIDE 1 CONDENS 10E3/CC CNC-143	SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 #PART>.3 PART/CC CLIMET	SIDE 2 *PART>.3 PART/CC CLIMET	SIDE 1 #PART>.5 PART/CC CLIMET	SIDE 2 #PART>.5 PART/CC CLIMET
23.8	100 Mer had 100 Mer 100	0.1 8.0	0.1	0. 519.	Q +	0. 445.	0.
32.7		8.0	7.2	317+	468.		365.
	3.64	7.8		498.	Jan and the first time and	403.	ness year ness yell some
36.1	3.64		6.5		491.	AL 2015 FOR 1007 U-0 1007	392.
	3.59	7.5		509.		431.	
37.1	3,64		7.8		502.		439.
	3.09	6.2		520.	and you want you have been	469.	و مسر بنید نیب و مسر
38.7	3.00	10.0 term spin and 1007 feet	6 • 6		510.		456.
	2.68	4.8		534.	515.	488.	456.
37.2	2.59		5.4	541.	212+	492.	430+
	1.94	4.0		341+	517.	** 7 £ +	452.
36.6	1.82	3.1	4.3	542.	31/+	486+	702+
34.7	1.09 0.91		3.4	J74+	516.		444.
		0.0		162.		161.	that will the last with the
26.7			0.0		258.		161.
	1.91	18.6		120.		120.	
32.6	2.54		8.4	pale was made their same com-	209.		195.
	3.59	14.7		191.		98.	
34.9	3.64		6.6		273.	4.0	165.
	3.64	11.2		389.	~~~~~~~~~	160.	198.
37.0	3.55	**************************************	5.0	A A (2)	392.	263.	178.
	3.23	8.7	4.0	442.	426.	263+	254.
37.7	3.09 2.68	7.0	4.0	452.	720+	314.	#U7+
38.6	2.68 2.60	7.0	3.9	404+	436.		283.
	1.96	5.3		451.		322.	major garde marke state state over-
36.7	1.87		2.3		435.		285.

AFF-124 DIESEL, VARIABLE NOX 1981 SEPTEMBER 1

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 #PART>1 PART/CC CLIMET	SIDE 1 BSCAT 10-4 M-1 MRI-388	SIDE 2 BSCAT 10-4 M-1 MRI-388	SIDE 1 AER.V UM3/CC TSI-023	SIDE 2 AER.V UM3/CC TSI-023	SIDE AER. PART/ TSI-C
1 745 1 935	-135 -25	0. 234.	0.	0.2 40.0	0.2	4. 30.	4.	159 3.5E
1 945 1 1105	-15 65	176.	134.	46.0	30.0	41.	21.	2.9E
1 1115 1 1205 1 1215	75 125 135	213.	155. 241.	70.0	50.0 80.0	62.	50.	3.9E
1 1305 1 1315	185 195	295.	272.	100.0 A	99.0	61.	50. 56.	3.5E
1 1405 1 1415 1 1505	245 255 305	323. 319.	266.	100.0 A 	90.0	100.	65.	6.3E
1 1515 1 1605	315 365	301.	250.	78.0	81.0	71. 68.	51.	4.5E 3.5E
1 1615 2 835	375 1355	11.	230.	3.4	70.0	16.	42.	
2 845 2 1005	1365 1445	8.	9.	5.1	4.9	32.	4.	1839 4.4E
2 1015 2 1105 2 1115	1455 1505 1515	10.	13.	14.0	6.7 14.0	37.	15. 	5.8E
2 1205 2 1215	1565 1575	20.	23.	27.0	23.0	46.	19.	5.5E
2 1305 2 1315 2 1405	1625 1635 1685	40. 	39.	38.0 48.0	28.0	45. 33.	23.	5.2E 4.7E
2 1415 2 1505 2 1515	1695 1745 1755	80.	53. 55.	48.0	33.0 30.0	43.	16.	7.7E
					-		554	

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2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
AT T	AER.V	AER.V	AER . N	AER.N	AER.S	AER.S
M-1	UM3/CC	UM3/CC	PART/CC	PART/CC	UM2/CC	UM2/CC
888	TSI-023	TSI-023	TSI-023	TSI-023	TS1-023	TSI-023
	101 020	.01 020				
2	4.	4.	159.	159.	38.	38.
	30.		3.5E 04		925.	
. ()		21.		2.2E 04		709.
	41.		2.9E 04		1288.	
0		50.		4.0E 04		1487.
	62.		3.9E 04		1827.	
. 0		50.		5,0E 04		1812.
	61.		3.5E 04		2012.	
. 0		56.		6.4E 04		1895.
	100.		6.3E 04		2127.	
0		65,		4.8E 04		1671.
	71.		4.5E 04	*** *** * * *** *** ***	1729.	
.0		51.		4.2E 04		1441.
	48.		3.5E 04		1540.	
0	Make your librar date your draw	42.		2.8E 04		1216.
	16.	same our room made with 6.74.	1839.		168.	
9		4.		857.		83.
(32.		4.4E 04		1923.	
. 7		15.		2.8E 04		620.
	37.		5.8E 04		1386,	
. 0		17.		3.0E 04		690.
	46.		5.5E 04	****	1561.	
0	**********	19.		2.7E 04		799.
	45.		5.2E 04		1579.	
0		23.		2.7E 04		806.
	33.		4.7E 04		1250.	
0		16.		1.8E 04		685.
	43.		7.7E 04	1507 1210 1111 1211 1211 1211 1211	1201.	
. 0		35,		2.3E 04		747.

AFF-124 BIESEL, VARIABLE NOX 1981 SEPTEMBER 1

	CLOCK TIME Y HR.	ELAPSED TIME (MIN)	SIDE 1 N-C10 FPM VAR 3700	SIDE 2 N~C10 PPM VAR 3700	SIDE 1 N-C11 PPM VAR 3700	SIDE 2 N-C11 PPM VAR 3700	SIDE 1 N-C12 PPM VAR 3700	SIDE 2 N-C12 PPM VAR 3700	SIDE N-C: PPN VAR :
1	835	-85	0.0098		0.0099		0.0194		0.03
1	945	-15		0.0054		0.0108		0.0133	
1	1005	5	0.0055		0.0089		0.0134		0.01
1	1215	135		0.0051		0.0088		0.0128	
1	1505	305			trin view tools took come come				
1	1615	375		0.0049	100 000 00° Pair 190 100	0.0080		0.0113	
2	730	1290	0.0067		0.0089		0.0156		0.01
2	845	1365		0.0045		0.0079		0.0120	
2	1992	1445	0.0056		0.0078		0.0104		0.02
2	1115	1515							
2	1205	1565	0.0050		0.0073		0.0101		0.01
2	1405	1685	0.0045		0.0069		0.0092		0.01
7	1515	1755	·· ·· ·	0.0049		0.0075		0.0104	

2	SIDE 1 N-C12 PPM	SIDE 2 N-C12 PPM	SIDE 1 N-C13 PPM	SIDE 2 N-C13 PPM	SIDE 1 N-C14 PPM	SIDE 2 N-C14 PPM
700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700
	0.0194	Notes adults which party above	0.0385		0.0554	M1 40 80 40 40 40
8		0.0133		0.0286	1000 when trans 1000 page 1000	0.0476
	0.0134	a an a second	0.0265		0.0376	
88		0.0128		0.0238		0.0388
-						
30		0.0113		0.0190		0.0243
	0.0156		0.0234		0.0259	
79		0.0120		0.0205		0.0231
	0.0104		0.3236		0.0258	

	0.0101		0.0182		0.0226	
	0.0092		0.0164		0.0204	
5		0.0104		0.0170		0.0242

AFF-124 DIESEL, VARIABLE NOX 1981 SEPTEMBER 1

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	N-C15	N-C15	CO	CO	FAN	PAN	HC
TIME	TIME	PPM	P P M	PPM	PPM	PPM	PPM	PP
DY HR.	(MIN)	VAR 3700	VAR 3700	BYRON	BYRON	ECD-3	ECD-3	Ċ
							**************************************	J
1 745	-135			1.32	1.32	0.000	0.000	
1 835	-85	0.0845						
1 935	-25			1.27		0.001		٥.
1 945	15		0.0755		1.42		0.000	
1 1005	5	0.0683						
1 1105	65			1.30		0.002		
1 1115	75 ·				1.53		0.010	
1 1200	120							٥.
1 1205	125		~~~~	1.70		0.015		
1 1215	135		0.0635		1.67		0.028	
1 1305	185			1.45		0.038		
1 1315	195				1.70		0.037	
1 1405	245			1.78		0.055		
1 1415	255				1.90		0.041	
1 1505	305			1.82		0.061		
1 1515	315				1.79		0.039	
1 1600	360							٥.
1 1605	365			2.05		0.057		
1 1615	375		0.0499		1.84		0.035	
2 730	1290	0.0394	No white term some ways so a		arts and her san gar san	on oo oo oo		
2 815	1335					*** *** *** *** ***		0.
2 835	1355			1.96		0.013		
2 845	1365		0.0369		1.85		0.006	
2 1005	1445	0.0392		2.21		0.023		
2 1015	1455	~~~~~			2.00		0.017	
2 1105	1505		~~~~~	2.24		0.026		
2 1115	1515				2.05		0.018	
2 1200	1560						0+010	٥,
2 1205	1565	0.0336		2.16		0.027		-~-
2 1215	1575				1.92	0.027	0.017	
2 1305	1625			2.03		0.025	0.017	
2 1315	1635				2.07		0.015	
2 1405	1685	0.0312		2.30		0.025		
2 1415	1695				2,29		0.015	
2 1505	1745		-	2.26		0.023		
2 1510	1750				***		etter dags skap enge virus gare.	0.
2 1515	1755		0.0324		2.41		0.014	
							* * * * * *	

--- NO DATA TAKEN

.

)

SIDE 1 PAN PPM ECD-3	SIDE 2 PAN PPM ECD-3	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	SIDE 1 PART.024 PART/CC TSI-023	SIDE 2 PART.024 PART/CC TSI-023
0.000	0.000	## TO 40		-334.	-334.
0.001	0.000	0.036	0.000	1.5E 04	3173.
0.002	0.010			167.	7849.
0.015		0.029	0.021	9018.	1 75 04
0.038	0.028 0.037	need office plant were sever away	and also take point that they	501.	1.7E 04 3.3E 04
0.055	0.041	hap the open two tree and	(14 pm A mp mill mm	4.7E 04	3.1E 04
0.061	0.039	0.088	0.044	3.3E 04	2.6E 04
0.057	0.035			2.1E 04	1.3E 04
		0.172	0.040		
0.013	0.006			501.	334.
0.023 0.026	0.017		200 AND	8350. 1.7E 04	1.0E 04
	0.018	0.121	0.056		1.1E 04
0.027 0.025	0.017			8183. 2.3E 04	4509.
0.025	0.015			2.1E 04	1.3E 04
0.023	0.015	0.130	0.056	4.8E 04	7181.
	0.014				1.1E 04

J

CLOCK		SIDE 1 PART.042	SIDE 2 PART.042	SIDE 1 PART.075	SIDE 2 PART.075	SIDE 1 PART.133	SIDE 2 PART.133	SIDE PART.
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/
DY HR.	(MIM)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-0
1 745	- 135	435.	435.	89.	89.	-48,	-43.	-49
1 935	-25	3480.	***************************************	6749.		8700.		873
1 945	-15		3132.		8924.		6507.	
1 1105	65	2436.		1.4E 04	pale to tall (term programmin and the	1.1E 04		1599
1 11.5	75		2436.		1.4E 04	~~~	1.5E 04	
1 1205	125	-261.		1.0E 04		1.7E 04		2706
1 1215	135		174.	180 mar 1800 mar 21 1800 mar	1.1E 04		2.0E 04	
1 1305	185	2697.		7148.		2.2E 04		2841
1 1315	195		-696.		8836,		1.9E 04	
1 1405	245	-435.		1421.		9447.		5277
1 1415	255		-2001.		3152.		1.1E 04	
1 1505	305	-6438.		1865.	~~~~	1,3E 04		3493
1 1515	315		-609.		2442.		1.1E 04	
1 1605	365	957.		311.		9182.		3100
1 1615	375		2523.		755.		9785.	
2 835	1355	957.		-133.		313.		111
2 845	1365		-87.		-178.		578.	
2 1005	1445	8091.		2.1E 04		6049,		554
2 1015	1455		1740.	· · · · · · · · · · · · · · · · · · ·	9946.		5808.	
2 1105	1505	2175.		2.6E 04		1.1E 04		947
2 1115	1515		1740.		1.0E 04		6290.	
2 1205	1565	7047.		2.7E 04		1.2E 04	map they that here pare some	1132
2 1215	1575		2436.	~~~~~	1.1E 04		8146.	
2 1305	1625	609.		1.1E 04		1.6E 04		1845
2 1315	1635		174.		5284.		8290.	
2 1405	1685	-6438.		2.0E 04		1.2E 04		873
2 1415	1695		-5220.		7370.		8122.	
2 1505	1745	8874.		1.1E 04		7326.	the fifth and the self from	1587
2 1515	1755		-522.		5950.	سد منی میت بست سند بیت	5519.	

----- NO DATA TAKEN

, And

DE 2 T.075 T/CC -023	SIDE 1 PART.133 PART/CC TSI-023	SIDE 2 PART.133 PART/CC TSI-023	SIDE 1 PART.237 PART/CC TSI-023	SIDE 2 PART.237 PART/CC TSI-023	SIDE 1 PART.422 PART/CC TSI-023	SIDE 2 PART.422 PART/CC TSI-023
89. 24. 4E 04 1E 04 36. 52. 42.	-48. 8700. 1.1E 04 1.7E 04 2.2E 04 9447. 1.3E 04 9182.	-48. 	-49. 873. 1599. 2706. 2841. 5277. 3493.	-49554 1365 2177 3702 3013	60. 107. 140. 167 187. 660. 454.	33. 33. 200. 93. 440. 313. 267.
78. 46. OE 04 1E 04 84. 	313, 6049. 1.1E 04 1.2E 04 1.6E 04 1.2E 04	578. 5808. 6290. 8146. 8290. 8122. 	111. 554. 947. 1132. 1845. 873. 1587.	165. 357. 541. 529. 898. 676.	27. 147. 113. 153. 273. 67. 140.	44. 33. 47. 40. 127. 0. 160.

AFF-124 DIESEL, VARIABLE NOX 1981 SEPTEMBER 1

1981 SE	PTEMBER 1	l	
CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 PART.750 PART/CC TSI-023	SIDE 2 PART.750 PART/CC TSI-023
1 745	-135	7.	7.
1 935	-25	35.	And the task that the
1 945	-15		29.
1 1105	65	35.	
1 1115	75		81.
1 1205	125	60.	
1 1215	135		4.
1 1305	185	25.	plin term again mad after term
1 1315	195		28.
1 1405	245	112.	
1 1415	255		32.
1 1505	305	56+	
1 1515	315		14.
1 1605	365	42.	
1 1615	375		7.
2 835	1355	63.	
2 845	1365		0.
2 1005	1445	46.	
2 1015	1455		7.
2 1105	1505	28.	
2 1115	1515		7.
2 1205	1565	53.	
2 1215	1575		7.
2 1305	1625	0.	
2 1315	1635		0.
2 1005 2 1015 2 1105 2 1115 2 1205 2 1215 2 1305 2 1315 2 1405 2 1415	1685	25.	
2 1415	1695		0.
2 1505	1745	63.	
2 1515	1755		74.

NOTES

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A ACTUALLY >100

NO DATA TAKEN

DAY 1 (SEPT. 3) ~0445: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 9.0 C DRY PULB: 19.3 C R.H.=21% DEW POINT: -3.6 0556: END FILL. 0628: INJECTED 5.0 ML. NO2. 0630: INJECTED 18.0 ML. NO. 0634: MIX AND DIVIDE BAG. 0645: SIMULTANEOUSLY INJECTED 550 MICROLITERS OF DIESEL FUEL INTO SIDE A AND 275 MICROLITERS DIESEL FUEL INTO SIDE B AT 250 DEGREES C FOR 30 MINUTES. 0720: MIX SIDE A, SIDE B. 0900: UNCOVER BAG (T=0). 0905: WEATHER: SUNNY AND HOT. 1620: END SAMPLING, DAY 1. DAY 2 (SEFT, 4) 0900: UNCOVER BAG. 0905: WEATHER: SUNNY AND HAZY. 1520: END SAMPLING, END RUN. DAY 2 **RESULTS** DAY 1 _____ 34(+-3) 34(+-3) AVG.T(DEG.C) 2.5(+-0.9) 2.6(+-0.6) AVG.UV(MW/CM2) T=0 AT 900 PST BAG NO. 24 USED

ID	INST.	AVERAGE VALUE	S.DEV	UNITS	
T	DORIC-1	31.8	5.6	DEG C	SIDE 1
T	DORIC-1	32.4	5 + 1	DEG C	SIDE 2
UV RAD	EPPLEY-2	2,56	0.75	MW/CM2	
ID	.TRMI.	INITIAL CONC.	UNITS		
ОИ	B-NOX-1	0.359	PPM	SIDE 1	
NO	B-NOX-1	0.362	MAA	SIDE 2	
NO2-UNC	B-NOX-1	0.119	PPM	SIDE 1	
NO2-UNC	B-NOX-1	0.118	PPM	SIDE 2	
THC	BK6800-1	6.09	PPMC	SIDE 1	
THC	BK6900-1	4.13	PPMC	SIDE 2	

AFF-125 DIESEL, VARIABLE FUEL 1981 SEPTEMBER 3

INSTRUMENTS USED

4250 BYRON

3000 CA

RATE (ML/MIN) ΙD LABEL DESCRIPTION 4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030 4350 CLIMET CLIMET 208 OFTICAL PART, CTR; SN:76-148 4400 MRI-388 MRI INTEGRATING NEPHELOMETER MD:1550B ENV ONE RICH100 CONDENS NUCLEI CTR; SN143 4200 CNC-143 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FIT 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; F(D RM-121 POROPAK-N GC; FID 2100 PN-1 DASIBI 1790 OZONE MONITOR 1790 D-1790 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 AF-LAB; 12° 5% CARBOWAX-600 GC; ECD 4000 ECD-3 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG

BYRON 401 HYDROCARBON ANALYZER

CHROMOTROPIC ACID HCHO ANALYSIS

SAMPLING

AFF-125 BIESEL, VARIABLE FUEL 1981 SEPTEMBER 3

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 OZONE PPM D-1790	SIDE 2 OZONE PPM D-1790	SIDE 1 NO PPM B-NOX-1	SIDE 2 NO PPM B-NOX-1	SIDE 1 NO2-UNC PPM B-NGX-1	SIDE 2 NO2-UNC PPM B-NOX-1	SID NOX- PF B-NO
1 605	-175	0.000	0.000	0.000	0.000	0.000	0.000	٥.
1 835	-25	0.035		0.359		0.119	01000	٥.
1. 845	-15		0.038	~~~~~	0.362		0,118	
1 1005	65	0.052		0.113		0.312		0.
1 1015	75		0.023		0.199		0.238	
1 1105	125	0.157		0.021		0.360		0.
1 1115	135		0.044	of the first than the state of the	0.075		0.337	
1 1205	185	0.321		0.005		0.277		٥.
1 1215	195		0.138	-	0.020		0.354	
1 1305	245	0.464		0.005	****	0.183		0.
1 1315	255		0.259	***	0.009		0.302	
1 1405	305	0.528		0.006		0.117	~	0.
1 1415	315		0.375		0.006		0.236	
1 1505	365	0.520		0.004		0.087		0.
1 1515	375		0.445	~~ ~~ ~~ ~~ ~~ ~~	0.003		0.179	
1 1605	425	0.484		0.001		0.075		١.
1 1615	435		0.451		0.005	*** *** *** *** ***	0.142	
2 875	1415	0.293		0.001		0.033		0.
2 845	1425		0.246	*** *** *** *** ***	0.001		0.038	
2 1005	1505	0.269		0.002		0.040		٥.
2 1015	1515	***	0.242		0.002		0.050	
2 1105	1565	0.265		0.002		0.046		0.
2 1115	1575		0.261		0.002		0.056	
2 1205	1625	0.266		0.000		0.051		0.
2 1215	1635		0.287		0.001		0.055	
2 1305	1685	0.275		0.003		0.050		0.
2 1315	1695		0.308		0.003		0.061	
2 1405	1745	0.274		0.003		0.051	Wine office data to the state and	0.
2 1415	1755		0.320		0.003		0.053	
2 1505	1805	0.285		0.000		0.050		٥.
2 1515	1815		0.315	1970 Didd allah talah tirah asar	0.003		0.058	

58

E 2	SIPE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	
NO.	NO2-UNC	NO2-UNC	NOX-UNC	NOX-UNC	NMHC	NMHC	
M	PPM	PPM	PPM	PPM	PPMC	PPMC	
0X-1	B-NOX-1	B-N0X-1	B-NOX-1	B-N0X-1	BYRON	BYRON	
000	0.000	0.000	0.000	0.000	0.30	0.30	
	0.119	PPS 9906 days 1 00 table page	0.489		11.10		
362		0.118		0.492		4.20	
	0.312		0.448		9.20		
199		0.238		0.457		5.30	
	0.360		0.382	*** *** *** *** ***	9.80		
075		0,337		0.424		7.20	
	0.277		0.284		10.90		
020	****	0.354		0.375	tree wire work home torn water	4.30	
	0.183	***************************************	0.188		9.20		
009		0.302		0.311		4.60	
	0.117		0.121		7.50		
006		0.236		0.240		5.30	
	0.087	~~~~	0.090		9.10		
003		0.179		0.182			
	0.075	***	0.078		8.20 C		
005		0.142		0,147	***************************************	4.80 0	;
	0.033	***********	0.036		Name Advice 1988 1884 1884 1844		
001	~	0.038		0.039			
	0.040		0.042				
003		0.050		0.051			
	0.046		0.049				
002		0.056		0.058	************		
	0.051		0.054			~ ~ ~ ~ ~ ~	
001		0.055		0.057			
	0.050		0.053			***	
003	~	0.061		0.062	700 May 1010 May 1000 May 1		
	0.051		0.053				
003		0.053		0.057			
	0.050		0.052				
003		0.058		0.059			

2

AFF-125 DIESEL, VARIABLE FUEL 1981 SEPTEMBER 3

CLOCK	ELAPSED	SIDE 1 THC	SIPE 2 THC	SIDE 1 T	SIDE 2 T	UV RAD	SIGE 1 COMPENS	SIDE
TIME	TIME	PPMC	PPMC	DEG C	DEG C	MW/CM2	10E3/CC	10E3/
DY HR.	(MIN)	BK6800-1	BK6800-1	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC-1
1 605	~175	2.67	2.67	18.8	18.8		0.4	0.
1 835	-25	6.09		24.6			10.3	
1 845	-15		4.13		27.5			20,
1 1005	65	7.16	~~~~~	29.5		2.00	9.7	
1 1015	75		4.69		31.6	2.50		16,
1 1105	125	6.86	abot tree after some some com-	32.5		3.28	3.7	
1 1115	135		5.05		33.0	3.37		13.
1 1205	185	8.44		35.0		3.64	7.7	
1 1215	195		6.28		35+6	3.55		10.
1 1305	245	7.55		37.0		3.09	7.0	
1 1315	255		5.24		37.6	3.00		8.
1 1405	305	6.74		37.1		2.68	6.0	
1 1415	315		5,43		36.1	2.62		7.
1 1505	365	7.24		34.8		2.00	4.8	
1 1515	375		H.84		34.1	1.82		ó +
1 1605	425	7.71		32.4		1.09	3.6	
1 1615	435		5.33		31.0	0.91		4.
2 835	1415	5.47		23.0			0.2	-
2 845	1425	-	5.00		25.0			0.
2 1005	1505	5.51		28.2		1.96	10.0	*** *** *** ***
2 1015	1515		4.45		29.6	2.45		12.
2 1105	1565	5.43		31.8		3.23	7.3	
2 1115	1575		3.90		32.7	3.19		8.
2 1205	1625	6.91		34.0		3.00	5.7	
2 1215	1635		4.50		35.0	3.28		6.
2 1305	1685	6.63		37.0		3.19	4.1	
2 1315	1695		4.64		37.4	2.73		5.
2 1405	1745	7.71		37.2		2.41	4+0	
2 1415	1755		5.12		36.7	2.32		4.
2 1505	1805	6+22		36.5		1.64	2.9	
2 1515	1815		5.43		36.4	1.50		3.

----- NO DATA TAKEN

E 2		S⊥∌E i	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
•	UV RAD	CONDENS	CONDENS	#PART>.3	#PART>.3	#PART>.5	#PART>.5
G C	MW/CM2	10E3/CC	10E3/CC	PART/CC	PART/CC	PART/CC	PART/CC
C-1	EPPLEY-2	CNC-143	CNC-143	CLIMET	CLIMET	CLIMET	CLIMET
•8		0.4	0.4	٥.	٥.	٥.	٥.
		10.3		529.		499.	
. 5			20.8		447.		298.
	2.00	9.7		528.		482.	
• 6	2.50		16.0		437,		267.
	3.28	5.7		528.		470.	
.0	3.37		13.0		454.		309.
	3.64	7.7		525.		473.	*** *** *** ***
• 6	3.55		10.0		472.		357.
	3.09	7.0		533.		488.	
+ 6	3.00		8.6		486.		396.
	2.68	6.0		536.		494.	
. 1	2.62		7.2		493.		420.
	2.00	4.8		537.		491.	
. 1	1.82		6.4		457.		432.
	1.09	3.6		534.		481.	
. 0	0.91		4.5		498.		432.
	WW 47 46 49 19 19 14	0.2		217.	· · · · · · · · · · · · · · · · · · ·	165.	
. 0			0.2		333.		189.
	1.96	10.0		166.		165.	
٠6	2.45	-	12.0		272.		249.
	3.23	7.3	-	246.		138.	
• 7	3.19		8.0		291.		212.
	3.00	5.7		403.		207.	
.0	3.28	_ ~ _ ~ ~ ~ ~ ~	6.3		398.		219.
	3.19	4.1	-	442.		291.	
. 4	2.73		5.5		436.	***************	270.
	2.41	4.0		450.		325.	
· 7	2.32	170 100 107 No. 100 Teles	4 + 6		444.		297.
	1.64	2.9		451.		328.	
, 4	1.50		3.6	***************	443.		302.

591

AFF-125 DIESEL, VARIABLE FUEL 1981 SEPTEMBER 3

CLOCK TIME NY HR.	ELAPSED TIME (MIN)	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 #PART>1 PART/CC CLIMET	SIDE 1 BSCAT 10-4 M-1 NRX-388	SIDE 2 BSCAT 10-4 M-1 MRI-388	SIDE 1 AER.V UM3/CC TSI-023	SIDE 2 AER.V UM3/CC TSI-023	SID AER PART TSI-
1 605	-175	0.	ç.	0.2	0.2	1.	i ,	260
1 835	-25	373.		100.0 A		83,		1.3
1 845	-15		50.		25.0	***	27.	
1 1005	65	315.	***************************************	87.0		95.	***	9.71
1 1015	75		35.		33.0		40.	
1 1105	125	282.		88.0		103.		9.51
1 1115	135		63.		45.0		35.	
1 1205	185	294.		98.0		117.		9.61
1 1215	195		109.		60.0		65.	
1 1305	245	328.		100.0 A		119.		1.01
1 1315	255	****	163.		77.0	-	71.	·
1 1405	305	338.		100.0 A		118.		8.1
1 1415	315		208.		88.0		73.	
1 1505	365	327.		98.0		102.	1760 Total alle and and and	7.91
1 1515	375		229.	~~~~	87.0	~~=====	85.	
1 1605 1 1615	425	303.		84.0		87.		6 + 41
1 1013	435		227.		80.0	mile teen orga dulu stur urbs	63+	****
2 835	1415	11.		4.4		5.		280
2 845	1425		16.	* ** ** **	6.9	***********	5.	
2 1005	1505	13.	~ ~ ~ ~ ~ ~	5.4		30.		4 + 21
2 1015	1515		24.		7.7		29.	
2 1105	1565	15.	***************************************	14.0		38.		5.11
2 1115	1575		22.		15.0		30.	
2 1205	1625	29.	***	26.0		47.		1.51
2 1215	1635		31.		25.0		31.	*****
2 1305	1685	58.		36.0	130	48.		5.31
2 1315	1695		47.		32.0		49.	
2 1405	1745	88.		46.0		71.		3.91
2 1415	1755		63.		37.0	and the other spen eric, som	52.	
2 1505	1805	89.		43.0	***	46.		4.01
2 1515	1815		67.		37.0	~ * * ~ ~ ~	42.	

No.

SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
AER.V	AER.V	AER • N	AER.N	AER.S	AER.S
UM3/CC	NW2/CC	PART/CC	PART/CC	UM2/CC	UM2/CC
TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
101 020	102 0				
1.	1.	2609.	2609.	12.	12.
83.		1.3E 05		2477.	
	29.		7.1E 04	·	932.
95.		9.7E 04		2114.	
	40.		6.8E 04		1212.
103.		9.5E 04		2237.	
	35.		7.8E 04		1318.
117.		9.6E 04		2410.	
	65.		7.5E 04		1681.
119.		1.0E 05		2511.	
	71.		8.0E 04		1823.
118.		8.1E 04		2407.	
	73.		7.9E 04		1809.
102.		7.9E 04		1915.	
	85.		6.5E 04		1755.
87.		6.4E 04		1533.	page 2.45 July April 2005 Print
	63+		5.5E 04		1425.
5.		2800.		87.	
	5.		5007.		113.
30.		4.2E 04		695.	
	29.		4.0E 04		733.
38.		5.1E 04		962.	900.
	30.		4.8E 04	4044	700+
47.		1.5E 04		1041.	893.
	31.		3.5E 04	1144.	073+
48.		5.3E 04		1144+	1089.
	49.		4.6E 04	1223.	1007+
71.		3.9E 04	4.2E 04	1220+	1046.
	52.		4+2E V4	927.	
46.		4.0E 04	3.4E 04	72/+	827.
	42.		344E V4		٠ د شا

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AFF-125 DIESEL, VARIABLE FUEL 1981 SEPTEMBER 3

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	N-C10	N-C10	N-C11	N-C11	N-C12	N-C12	N-0
TIME	TIME	PPM	PPM	PPM	PPM	PPM	PPM	PP
r HR.	(MIN)	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR
730	-90	0.0060 B	opin then been good own man	0.0101 B		0.0113 B		0.0
845	-15		2000 DOLL Speet 19535 States 19500		0.0046		0.0073	
1005	65	0.0054		0.0090		0.0120	state there are stopy were there	0.0
1115	135				0.0049		0.0079	
1205	185	0.0048		0.0075		0.0113		0.0
1315	255				-		0.0066	~
1505	365	0.0045		0.0073		0.0098		0.0
1615	435						8400.0	
730	1350	0.0064	100 004 000 per Parl 1000	0.0077	****	0.0151		0.0
845	1425		0.0056 B		0.0046	B	0.0068	3
1005	1505			0.0068		0.0089		0.0
1115	1575						0.0056	
1215	1635						0.0051	
1405	1745	0.0049		0.0067		0.0104		0.0
1515	1815						0.0050	
	730 845 1005 1115 1205 1315 1505 1615	TIME TIME (MIN) 730 -90 845 -15 1005 65 1115 135 1205 185 1315 255 1505 365 1615 435 730 1350 845 1425 1005 1505 1115 1575 1215 1635 1405 1745	TIME TIME PPM (HR. (MIN) VAR 3700 730 -90 0.0060 B 845 -15 1005 65 0.0054 1115 135 1205 185 0.0048 1315 255 1505 365 0.0045 1615 435 730 1350 0.0064 845 1425 1005 1505 1105 1575 1215 1635 1405 1745 0.0049	CLOCK ELAPSED N-C10 N-C10 TIME TIME PPM PPM Y HR. (MIN) VAR 3700 VAR 3700 730 -90 0.0060 B 1005 65 0.0054 1115 135 1205 185 0.0048 1315 255 1505 365 0.0045 1505 365 0.0045 1505 365 0.0045 1515 435 730 1350 0.0064 845 1425 1005 1505 1115 1575 1215 1635 1405 1745 0.0049	CLOCK ELAPSED N-C10 N-C10 N-C11 TIME TIME PPM PPM PPM PPM Y HR. (MIN) VAR 3700 VAR 3700 VAR 3700 730 -90 0.0060 B 0.0101 B 845 -15 0.0090 1115 135 0.0090 1115 135 0.0075 1315 255 0.0075 1315 255 0.0073 1615 435 0.0077 845 1425 0.0056 B 1005 1505 0.0056 B 1005 1505 0.0068 1115 1575 0.0067	CLOCK ELAPSED N-C10 N-C10 N-C11 N-C11 TIME TIME PPM PPM PPM PPM PPM Y HR. (MIN) VAR 3700 VAR 3700 VAR 3700 VAR 3700 730 -90 0.0060 B 0.0101 B 845 -15 0.0046 1005 65 0.0054 0.0090 1115 135 0.0049 1205 185 0.0048 0.0075 1315 255 0.0075 1505 365 0.0045 0.0073 1515 435 0.0077 730 1350 0.0064 0.0077 845 1425 0.0056 B 0.0046 1005 1505 0.0056 B 0.0046 1115 1575 0.0068 1215 1635 0.0067	CLOCK ELAPSED N-C10 N-C10 N-C11 N-C11 N-C12 TIME TIME PPM PPM PPM PPM PPM PPM PPM PPM PPM P	CLOCK ELAPSED N-C10 N-C10 N-C11 N-C11 N-C12 N-C12 TIME TIME PPM PPM PPM PPM PPM PPM PPM PPM PPM P

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00	N-C12 PPM	SIDE 2 N-C12 PFH VAR 3700	SIDE 1 N-C13 PPM VAR 3700	SIDE 2 N-C13 PPM VAR 3700	N-C14 PPM	SIDE 2 N-C14 FPM VAR 3700	
					0.0239 B		
-	0.0113 B		0.0213 B		U.U237 B	0.0190	
Ś		0.0073		0.0147	A A7AA	V+V1/V	
-	0.0120		0.0233		0.0300	0.0243	
9		0.0079		0.0147	A ADEC	0+0243	
_	C.0113		0.0213		0.0258	0 007/	
		0.0066		0.0132		0.0236	
	0.0098		0.0167		0.0253		
		8800.0		0.0114		0.0352	
	0.0151		0.0238		0.0243		
		0.0068 B		0.0113 E		0.0130 E	}
6	B	U+UU00 D	0.0162		0.0232		
_	0.0089		V+V102	0.0101		0.0150	
~		0.0056		0.0095		0.0116	
		0.0051			0.0162		
-	0.0104		0.0143		V + V 1 U L	0.0097	
_		0.0050		0.0089		~ * ~ ~ / /	

CLOCK	ELAPSED	SIDE 1 N-C15	SIDE 2 N-C15	SIDE 1	SIDE 2 CO	SIDE 1 PAN	SIDE 2 PAN	SIDE
TIME	TIME	PPM	PPM	PPM	FPM	PPM	PPM	PPM
DY HR.	(MIM)	VAR 3700	VAR 3700	BYRON	BYRON	ECD-3	ECD-3	CA
				2111011	DINOR	ECD 0	ECD-3	CH
1 605	-175			0.22	0.22	0.000	0.000	
1 730	-90	0.0373 B						
1 810	-50							0.0
1 835	-25	-		0.14		0.000		
1 845	-15		0.0337		0.18		0.000	
1 1005	65	0.0535		0.22		0.004		
1 1015	75				0.37		0.003	
1 1105	125			0.12		0.017	~~~~~	
1 1115	135		0.0365		0.30		0.007	
1 1200	180				1979 Adas 4000 State price along			0.0
1 1205	185	0.0435		0.58		0.034		
1 1215	195				0.27		0.016	*** *** *** ***
1 1305	245			0.60		0.049		<u></u>
1 1315	255		0.0325		0.41		0.028	
1 1405	305			0.51		0.064		
1 1415	315		~ ~ ~ ~ ~ ~		0.57		0.042	
1 1505	365	0.0367		0.72	************	0.066		
1 1515	375				0.54		0.055	
1 1605	425			0.48		0.066		
1 1610	430						THE THE CON CONT SAID SAID	0.1
1 1615	435		0.0318		0.90 C		0.061	
2 730	1350	0.0426	*** *** *** *** ***				*** *** *** *** ***	
2 810	1390							0.1
2 835	1415					0.027		
2 845	1425		0.0235 B				0.032	
2 1005	1505	0.0321				0,028		
2 1015	1515	***************************************					0.036	·- ·- ·- ·- ·
2 1105	1565		erts and draw saw was see			0.032		
2 1115	1575		0.0250				0.040	
2 1200	1620					***		0.1
2 1205	1625			***		0.032		
2 1215	1635		0.0192				0.038	
2 1305	1685					0.034		
2 1315	1695						0.033	
2 1405	1745	0.0265				0.029		
2 1415	1755	*** *** *** *** ***	~				0.033	
2 1505	1805					0.027	artis faller spine facul trang many	
2 1510	1810							0.13
2 1515	1815		0.0170				0.031	

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E 2 O M	CIDE 1 PAN PPM	SIDE 2 PAN PPM	SIDE 1 HCHO PPM	SIDE 2 HCHO PPM	SIDE 1 PART.024 PART/CC	SIDE 2 PART.024 PART/CC
אסא	ECD-3	ECD-3	CA	CA	TSI-023	TSI-023
22	0.000	0.000			2004.	2004.
			0.025	0.006		
	0.000				9.4E 04	
18		0.000			~ ~ ~ ~ ~ ~ ~ ~ ~ ~	4.6E 04
	0.004				6.9E 04	
.37		0.003	and tall tales flow beat after			4.2E 04
	0.017				6.7E 04	
30		0.007				4.6E 04
			0.031	0.017		
	0.034				7.1E 04	
27		0.016				5.3E 04
	0.049				8.7E 04	
41		0.028				5.8E 04
	0.064				5.8E 04	
57		0.042	Arra disa 1000 sala sala sala			6.1E 04
	0.066				6.4E 04	
54		0.055				4.9E 04
	0.066				5.0E 04	
			0.105	0.042		
90 C		0.061			opui Pina rillo nila lafe lafe	4.0E 04
			G.190	0.044	then state two ways twee bath	
			0.170	0.044	2505.	
	0.027	0.032			2303+	4008.
	0.028	0.032			2.8E 04	4000+
	0.020	0.036			Z+0L V4	2.3E 04
	0.032				3.6E 04	
	V+VUL	0.040		-		3.2E 04
	Th. 1000 0000 0000 0000 0000		0.123	0.050		
	0.032				1169.	
		0.038			~~~~~	1.8E 04
	0.034				3.9E 04	
		0.033				3.3E 04
	0.029			dealth denter values were trans arters	2.9E 04	
		0.033				3.2E 04
	0.027			-	3.1E 04	
			0.136	0.073		
		0.031				2.6E 04

D

AFF-125 DIESEL, VARIABLE FUEL 1981 SEPTEMBER Z

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		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE
CLOCK	ELAPSED	PART.042	PART.042	PART.075	PART.075	PART.133	PART - 133	PART
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART,
DY HR.	(MIM)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-
1 605	~175	1131.	1131.	-1021.	-1021.	602.	602.	-11:
1 835	-25	1218.		1.1E 04		1.9E 04	~	413;
1 845	-15		1.0E 04		8347.		5567.	
1 1005	65	1740.		9946.		1.2E 04		377
1 1015	75	-	5829.		1.1E 04		7953.	
1 1105	125	3306.		8480.		1.1E 04		4371
1 1115	135		8091.		1.1E 04		1.1E 04	
1 1205	185	1218.		6394,		1.1E 04		4491
1 1215	195		87.		7726.		1.1E 04	
1 1305	245	-4002.		5639.		9254.		596!
1 1315	255		-435.		6749.		1.1E 04	
1 1405	305	-1305.		9590.	· The seal seek size was	8411.		495
1 1415	315		-1392.		5195.		1.0E 04	
1 1505	365	2958.		1510.		5688.		401
1 1515	375		1305.		3064.		7495.	
1 1605	425	1392.		6394.	~~~~~	1494.		312
1 1615	435		3393.		444.		7061.	
2 835	1415	-696.		844.		-169.		29
2 845	1425		87.		178.		434.	
2 1005	1505	2349.		7370.		3904.		49
2 1015	1515		2349.		9146.		4386.	
2 1105	1565	348.		6127.		6314.		139
2 1115	1575		261.	*** *** *** ***	7770.		6700.	
2 1205	1625	435.		4262.		6989.		178
2 1215	1635		0.		1.2E 04		3615.	
2 1305	1685	2262.		2220.		6338.		221
2 1315	1695		609.		3596.		6676.	
2 1405	1745	-174.		2042.		5181.		194
2 1415	1755		-696.		3152.		5302.	
2 1505	1805	957.		1021.	-	3856.	~	193
2 1515	1815		-522.		2176.		4675.	** ··· ··

---- NO DATA TAKEN

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2 75 C 3	SIDE 1 PART.133 PART/CC TSI-023	SIBE 2 PART.133 PART/CC TSI-023	SIDE 1 PART.237 PART/CC TSI-023	SIDE 2 PART.237 PART/CC TSI-023	SIDE 1 PART.422 PART/CC TSI-023	SIDE 2 PART.422 PART/CC TSI-023
	602. 1.9E 04	602. 5567.	-111. 4133. 	1328.	0. 520. 207.	73. 280.
04	1.1E 04 	7953. 1.1E 04	4379.	1525. 1451. 2767.	554.	180.
. 	9254.	1.1E 04 1.1E 04 1.0E 04	5965.	3370. 3788.	967.	480.
•	5688.	7495.	4010. 3124.	3444.	840.	734.
-	-169· 3904·	434.	295. 492.	234.	167.	67.
 04	6314.	6700. 3615.	1390.	1058.	153. 240. 380.	207.
•	6338. 5181. 	6676.	2214. 1943. 1931.	1968.	427.	233.
· ·	2030+	4675.		1021.		313.

F

		SIDE 1	SIDE 2
4. 504	ELAPSED	PART.750	PART . 750
CLOCK	TIME	PART/CC	PART/CC
TIHE	(HIN)	TS1-023	TSI-023
DY HR.	(1111)	131 020	
1 605	-175	4.	4.
1 835	-25	35.	
1 845	-15		35.
1 1005	65	193.	
1 1015	75		25.
1 1105	125	158.	
1 1115	135		4.
1 1205	185	183.	
1 1215	195		56.
-	245	147.	
	255		60.
-	30 5	147.	
1 1405 1 1415	315		60.
	365	151.	
1 1505 1 1515	375		98•
1 1605	425	133.	
1 1615	435		42.
1 1013			
2 835	1415	14.	
2 845	1425		0.
2 1005	1505	60.	
2 1015	1515		63.
2 1105	1565	60.	
2 1115	1575		18.
2 1205	1625	70.	
2 1215	1635		٥.
2 1305	1685	39.	
2 1315	1695		81.
2 1405	1745	151.	
2 1205 2 1215 2 1305 2 1315 2 1405 2 1415	1755		102.
2 1505	1805	74•	
2 1515	1815		74.
		TA TAKEN	

NOTES

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C

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ACTUALLY >100
PRESSURE ROSE, SO RETENTION TIMES ARE OFF (POSSIBLY AREAS ALSO)
BYRON FLAME WENT OUT; TOOK SEVERAL HOURS TO STABILIZE. OFF FOR REST OF RUN. В

AFF-126

PROPENE/NOX CONDITIONING 1981 SEPTEMBER 8

"0600: START PURGE.

0705: END PURGE, BAG DUMPED.

0722: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 18.5 C DRY BULB: 32.0 C R.H.=26% DEW POINT: 9.6 C

0835: END FILL.

0849: INJECTED 12.0 ML. NO.

0851: INJECTED 11.0 ML. MO2.

0853: INJECTED 22.5 ML. PROPENE.

0855: MIXED BAG.

0903: UNCOVER BAG (T=0).

WEATHER: HOT, CLEAR, AND SUNNY.

1400: RUN OVER.

T=0 AT 903 PST

596

BAG NO. 24 USED

INSTRUMENTS USED

ID LABEL DESCRIPTION
1790 D-1790 DASIBI 1790 OZONE MONITOR
4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER: SN300038-2

CLOCK	ELAPSED	OZONE	סא	NO2-UNC	NOX-UNC
TIME	TIME	PPM	PPM	FFM	PPM
DY HR.	(MIN)	D-1790	B-NOX-1	B-NOX-1	B-NOX-1
1 905	2	0.002	0.180	0.155	0.350
1 1400	297	0.787	0.000	0.147	0.150

---- NO DATA TAKEN

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BAG NO. 24 USED

AFF-127
DIESEL VS JP-4(PET)

ID	INST.	AVERAGE	S.DEV	UNITS	
		VALUE			
T	DORIC-1	35.2	5.6	DEG C	SIDE 1
T	DORIC-1	35.5	5.2	DEG C	SIDE 2
UV RAD	EPPLEY-2	2.66	0.95	MW/CM2	
ID	INST.	INITIAL CONC.	UNITS		
NO	B-NOX-1	0.329	PPM	SIDE 1	
ОИ	B-NOX-1	0.323	PPM	SIDE 2	
NO2-UNC	B-NOX-1	0.106	PPM	SIDE 1	
NO2-UNC	B-NOX-1	0.103	PPM	SIDE 2	

AFF-127 DIESAL VS JF-4(PET) 1981 SEPTEMBER 9

INSTRUMENTS USED

SAMPLING RATE (ML/MIN)

\mathbf{I}	LABEL	DESCRIPTION	(ML/MIN)
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 GC; ECD	
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	
4250	BYRON	BYRON 401 HYDROCARBON ANALYZER	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OPTICAL PART, CTR;SN:76-148	
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550B	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR/SN143	5
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FII	l
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2100	PN-1	RM-121 POROPAK-N GC; FID	
4850	BK6800-1	BECKMAN CB, HC ANALYZER SN:100015D	
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS	

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE
CLOCK	ELFPSED	OZONE	OZONE	NО	ОМ	NO2-UNC	NO2-UNC	NOX-l
TIME	TIME	PPM	PPM	PPM	PPM	PFM	PPM	444
DY HR.	(MIN)	0-1790	II-1790	B-N0X-1	B-NOX-1	B-NOX-1	B-NOX-1	B-M0)
1 605	-175	0.000	0.000	0.000	0.000	0.000	0.000	0.0
1 835	-25	0.038		0.329		0.106		0 + 4
1 845	-15		0.005		0,323		0.103	
1 1005	65	0.059		0.107		0.277		0.4
1 1015	75		0.026		0.111		0.279	
1 1105	125	0.175		0.016		0.312	page agen yang 11-86 page area	0.0
1 1115	135		0.200		0.011		0.331	
1 1205	185	0.386		0.008		0.202		0.2
1 1215	195		0.510		0.008		0.262	
1 1305	245	0.521		0.001		0.109		0.1
1 1315	255		0.756		0.004		0.181	
1 1405	305	0.532		0.001	~~~~	0.071		0.0
1 1415	315		0.841		0.001		0.132	
1 1505	365	0.505		0.002		0.060		0.0
1 1515	375		0.831		0.001		0.108	
1 1605	425	0.461		0,005	-	0.052		0.0
1 1615	435		0.799		0.001		0.092	
2 835	1415	0.279	make them more warn come from	0.008		0.021		0.0
2 845	1425		0.586		0.007		0.038	
2 1005	1505	0.254	~~~~~	0.008		0.033		0.0
2 1015	1515		0.545		0.009		0.046	
2 1105	1565	0.249		0.006		0.039		0.0
2 1115	1575		0,519	~~~~	0.008		0.050	
2 1205	1625	0.259		0.009		0.043		0.0
2 1215	1635		0.501	~~~~	0.008		0.053	
2 1305	1685	0,272		0.008	CT 107 100 107 100 107	0.043		0.0
2 1315	1695		0.485		0.004	~~~~	0.052	
2 1405	1745	0.275	V+700	0.000		0.039		0.0
2 1415	1755	772/3	0.470		0.004		0.050	
2 1505	1805	0.268	V+470	0.006		0.042	~~~~~	0.0
2 1515	1815	V+200	0.450	0.000	0.008	V+V42	0.052	
A 1010	LULU		V+75V		V+VV0		O + V G L	

2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
	NO2-UNC	NO2-UNC	NOX-UNC	NOX-UNC	NMHC	NMHC
	PPM	PPM	PPM	PPM	PPMC	PPMC
-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	BYRON	BYRON
00	0.000	0.000	0.000	0.000	0.16	0.16
	0.106		0.440		9.10	
23		0.103		0.439		21.70
	0.277		0.401		9.90	
11		0.279		0.409		20.10
	0.312		0.324		7.70	
11		0.331		0.345		20.70
·	0.202		0.208		8.80	
80		0.262		0.270		10.20
	0.109		0.111		8.50	
04		0.181	AND MAIN WAS BOOK PLT 1984.	0.188		
	0.071		0.073		7.90	
01		0.132		0.137		18.20
	0.060		0.062		8.20	that when find their time but
01		0.108		0.111		16.90
	0.052		0.057		6.60	
01		0.092	are and odd total view 1000	0.096		16.90
.	0.021	party passed weeks their whom the sec	0.026		7.50	
07		0.038		0.040		17.40
	0.033		0.037		7.30	
09		0.046		0.050		16.80
	0.039		0.041		6.60	
80		0.050		0.055		16,70
	0.043		0.048	7-5 Marie 1980 1870 1894 1894	5.70	
80		0.053		0.058		16.40
	0.043		0.047		6.60	
04		0.052		0.057		16.50
	0.039		0.042		7.10	
04		0.050		0.052		15.60
	0.042		0.047		6.40	
800		0.052		0.057		16.60

AFF-127 DIESEL VS JP-4(PET) 1981 SEPTEMBES 9

CLOCK TIME	ELAPSED TIME	SIDE 1 THC PPMC	SIDE 2 THC PPMC	SIDE 2 THC PPMC	SIDE 1 T PEG C	SIDE 2 T DEG C	UV RAD MW/CM2	SID COND 10E3
DY HR.	(MIN)	BK6800-1	BYRON	BK6800-1	DORIC-1	DORIC-1	EPPLEY-2	CMC-
1 605	-175	2.88	2.00	2.88	17.4	19.4		0
1 835	-25	8.78			30.3		MAR AND THE MAR AND 146	14
1 845	-15		15.50	21.10	-	33.0		
1 1005	65	7.94			34.4		1.64	12
1 1015	75		15.30	20.70		35.8	2.36	
1 1105	125	7.63			37.5		3.55	10
1 1115	135		15.00	21.00	-	39.0	3.55	
1 1205	185	6.78			38.7		4.00	9
1 1215	195		14.50	20.20		39.5	4.00	
1 1305	245	7.17			40.4		3.37	8
1 1315	255		14.00	20.20		40.3	2.75	
1 1405	305	6.78			40.3		2.86	6
1 1415	315		13.70	18,40		38.3	2,73	
1 1505	365	7.09			39.0		1.96	5
1 1515	375		13.50	18.40		37.3	1.77	
1 1605	425	6.47			35.5		0.86	4
1 1615	435		13.40	17.80	native above above small water same	34.2	0.77	
2 835	1415				27.4			0
2 845	1425		13.10	16.10		29.5		
2 1005	1505	5.24			32.1		1.73	11
2 1015	1515		12.90	17.30		33.0	2.45	
2 1105	1565	5.93			35.2		3.64	9
2 1115	1575		12.80	16.10		36.4	3.64	
2 1205	1625	5.75			38.6		3.69	7
2 1215	1635		12.90	18.20		38.6	3.69	
2 1305	1685	6.55		~~~~	39.8		3.28	5
2 1315	1675		12.70	19.60		39.3	2,73	
2 1405	1745	6.47			38.4		2.45	4
2 1415	1755		12.70	15.50		37.5	2.36	
2 1505	1805	6.24			36.6		1.73	3
2 1515	1815		12.70	16.10	*** *** *** *** ***	36.4	1.55	

NO DATA TAKEN

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SIDE 2 DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	SIDE 1 CONDENS 10E3/CC CNC-143	SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 #PART>.3 PART/CC CLIMET	SIDE 2 #PART>.3 PART/CC CLIMET
19.4 33.0 35.8 39.0 39.5 	1.64 2.36 3.55 3.55 4.00 4.00 3.37 2.75	0.0 14.7 12.2 10.0 9.2 8.0	0.0 0.0 47.0 34.0 27.0	0. 502. 487. 505. 	0. 1. 3. 7.
38.3 37.3 	2.86 2.73 1.96 1.77 0.86 0.77	5.1 4.0	17.0	512. 516. 516.	271. 313. 317.
29.6 33.0 36.4	1.73 2.45 3.64 3.64	0.3 11.4 	0.2 0.3 	235. 187. 248.	70. 185.
38.6 39.3 37.5 	3.69 3.69 3.28 2.73 2.45 2.36 1.73 1.55	7.7 5.7 4.8 	0.4 0.4 0.4 0.4	399. 433. 438. 437.	179. 181. 191.

or oor.	CL ADOED	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK TIME	ELAPSED TIME	#PART>.5 PART/CC	#PART>.5 PART/CC	#PART>1 PART/CC	#PART>1 PART/CC	BSCAT 10-4 M-1	BSCAT 10-4 M-1	AER UM3.
DY HR.	(MIN)	CLIMET	CLIMET	CLIMET	CLIMET	MRI-388	MRI-388	TSI-
W 1 111X 4	(11414)	WE 411E !	Ser for All 19 See 1	Win Allin I	OLINE	1111 000		101
1 605	-175	0.	0.	0.	٥.	0.0	0.0	 1
1 835	-25	455.		282.		75.0		9
1 845	-15		٥,		0.		0.2	
1 1005	65	406.		185.		60.0		8
1 1015	75		٥,		0.		0.0	
1 1105	125	416.		201.		76.0		11
1 1115	135		1.	0-10 auto anni 61110 0100 0100	0.		1.0	
1 1205	185	457.		290.		100.0 A		13
1 1215	195		1.	000 ton 000 ton 100 top	0.		4.8	
1 1305	245	472.		334.		100.0 A		15
1 1315	255		3.		ο.		13.0	
1 1405	305	475.		334.		100.0 A		15
1 1415	315		24.		0.		18.0	14
1 1505	365	474.		319.		100.0 A		14
1 1515	375		48.		0.		20.0	12
1 1605	425	465.		297.		94.0		12
1 1615	435		55.		0.		17.0	
2 835	1415	164.		10.		4.8		2
2 845	1425	water were state which with early	1.		0.		1.4	
2 1005	1505	182.		12.		5.9		1
2 1015	1515		16.		0.		2.5	
2 1105	1565	153.		14.		14.5		4
2 1115	1575		23.	- m - m -	0.		3.2	
2 1205	1625	208.		29.		26.0		4
2 1215	1635	**** *** *** ***	28.		0.		3.2	
2 1305	1685	283.		55.		37.0		5
2 1315	1695		39.		0.		3.6	
2 1405	1745	312.		79.	-	40.0	100 mai não sau 100 m.	5
2 1415	1755		56.		0.		3.6	
2 1505	1805	309.		75.	-	38.0		6
2 1515	1815		50.		0.		3.1	

SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
	BSCAT	AER.V	AER.V	AER • N	AER.N
10-4 M-1		UM3/CC			
MRI-388	MRI-388	TSI-023			
441-200	HK1-200	131-023	131-023	131-023	131-023
0.0	0+0	-0.	-0.	-1336.	-1336,
75.0		99.	~	7.1E 04	
	0.2		1.		589.
60.0	****	86.		5.1E 04	
NE 104 CT TN 000 CT	0.0		4 +		8.8E 04
76.0		111.		6.6E Q4	
	1.0		27.		7.3E 04
100.0 A		131.		8.0E 04	
	4.8		35.		8.6E 04
100.0 A		158.		9.1E 04	
	13.0		38.		7.0E 04
100.0 A		153.		7.0E 04	
	18.0		45.		6.1E 04
100.0 A		146,		6.3E 04	
	20.0		43.		5.2E 04
94.0		124.		5.4E 04	
	17.0		43.		4.3E 04
4.8		21.		1637.	
	1.4		9•		836.
5.9		14.		3.3E 04	
	2.5		3.		2175.
14.5		44.		2.9E 04	
	3.2		8.		2019.
26.0		44.		1.9E 04	
	3.2		4.	~	1949.
37.0		52.		3.7E 04	
	3.6		3.		3684.
40.0		58.	-	3.6E 04	
	3.6		3.		2707.
38.0		66+		2.6E 04	*** *** *** ***
	3.1		9.		2853.

AFF-127 DIESEL VS JP-4(PET) 1981 SEPTEMBER 9

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 2	SIDE 2	SIDE
CLOCK	ELAPSED	AER.S	AER.S	N-C5	N-C5	N-C6	N-C7	MECYC
TIME	TIME	UM2/CC	UM2/CC	PPM	PPM	PPM	PPM	444
DY HR.	(MIM)	TSI-023	TSI-023	DMS-1	DMS-1	VAR 3700	VAR 3700	VAR 3
1 605	-175	-2.	-2.	*** *** *** *** ***			1880 Mile alian man yang yang	
1 730	-90			0.0011				
1 755	-65				0.0400			
1 835	-25	1955.						
1 845	-15		23.			0.1025	0.1129	0.07
1 1005	65	1839.						
1 1015	75		399.					
1 1105	125	2310.						
1 1115	135		974.			0.1064	0.1109	0.07
1 1205	185	2996.						
1 1215	195		1401.					
1 1305	245	3006.					*** *** *** *** ***	
1 1315	255		1480.			0.1057	0.1078	0.06
1 1405	305	2876.						
1 1415	315		1476.				***	
1 1505	365	2473.		0.0015				
1 1515	375		1322.					
1 1605	425	2124.						
1 1315	435		1136.		0.0339	0.1051	0.1024	0.06
2 725	1345					0000 0000 0000 0000 union	w	··· ··· ·
2 835	1415	226.						
2 045	1425		119.			0.1027	0.1027	0.05
2 1005	1505	570.						
2 1015	1515		77.				··· ·· ·· · · · · · ·	
2 1105	1565	1137.						
2 1115	1575		121.			0.1034	0.1070	0.05
2 1205	1625	1150.				~~~~		
2 1215	1635		82.				-	
2 1305	1685	1280.		-				
2 1315	1695		82.			****		
2 1405	1745	1195.						
2 1415	1755		87.		0.0354	0.1017	0.0956	0.05
2 1505	1805	1146.					~	
2 1515	1815		129.					

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E 2 C5 4 -1	SIDE 2 N-C6 PPM VAR 3700	SIDE 2 N-C7 PPM VAR 3700	SIDE 2 MECYC-C6 PPM VAR 3700	SIDE 2 N-C8 PPM VAR 3700	SIDE 1 N-C9 PPM VAR 3700	SIDE 2 N-C9 PPM VAR 3700
 				ange gate value state state state and about these parts down state and about these parts down state	0.0037	
100					ware steps above tools grient date.	
	0.1025	0.1129	0.0708	0.1065	0.0081	0.0538
	0.1064	0.1109	0.0761	0.1062		0.0472
			مين منت منت بنت بنت		0.0060	
		0.1078	0.0612	0.0901	rate fails and more part fails	0.0412
	0.1057	0.1070		كفت ميت بنت جند مند		
					0.0050	
 339	0.1051	0.1024	0.0604	0.0891		0.0405
-			man with most man by the sa	area made state sorry tank	0.0305	park have been also been seen
	0.1027	0.1027	0.0555	0.0804	0.0045	0.0394
			special began steam below stated and other			
	0.1034	0.1070	0.0552	0.0818		0.0413
					0.0048	
	0.1017	0.0956	0.0516	0.0797	0.0050	0.0363
0354 					0.0030	

AFF-127 DIESEL VS JP-4(PET) 1981 SEPTEMBER 9

CLOCK TIME DY HR.	ELAFSED TIME (MIN)	SIDE 1 N-C10 PPM VAR 3700	SIDE 2 N-C10 PPM VAR 3700	SIDE 1 N-C11 PPM V:R 3700	SIDE 2 N-C11 FPM VAR 3700	SIDE 1 N-C12 PPM VAR 3700	SIDE 2 N-C12 PPM VAR 3700	SID N-C PP VAR
1 730 1 845 1 1005 1 1115 1 1205 1 1315 1 1505 1 1615	-90 -15 65 135 185 255 365 435	0.0083 0.0055 0.0056	0.0333 0.0312 0.0284 	0.0092 0.0091 0.0094 	0.0363 0.0340 0.0310 0.0269	0.0119 0.0141 0.0129 0.0116	0.0296 0.0280 0.0254 	0.0
2 725 2 845 2 1005 2 1115 2 1205 2 1415 2 1505	1345 1425 1505 1575 1625 1755 1805	0.0114 0.0054 0.0078	0.0267 0.0242 0.0236	0.0089 0.0070 0.0077 0.0089	0.0278 0.0262 0.0250	0.0153 0.0102 0.0096 	0.0208 0.0207 0.0188	0.0 0.0 0.0

DE 2 -C11 PPM R 3700	SIDE 1 N-C12 PPM VAR 3700	SIDE 2 N-C12 PPM VAR 3700	SIDE 1 N-C13 PPM VAR 3700	SIDE 2 N-C13 FPM VAR 3700	SIDE 1 N-C14 FPM VAR 3700	SIDE 2 N-C14 PPM VAR 3700	SIDE 1 N-C15 PPM VAR 3700
	0.0119		0.0174		0.0240		0.0400
.0363		0.0296		0.0199		0.0247	
	0.0141		0.0241		0.0319		0.0649
.0340		0.0280		0.0214		0.0147	
	0.0129		0.0192		0.0195		0.0292
.0310		0.0254		0.0196		0.0121	
.0310	0.9116		0.0159		0.0172		0.0264
.0269		0.0205		0.0152		0.0091	
	0.0153		0.0209		0.0202		0.0303
.0278		0.0208	-	0.0150		0.0094	
+02/0	0.0102		0.0151		0.0157		0.0259
.0262		0.0207		0.0143		0.0093	
	0.0096		0.0146		0.0173		0.0254
		0.0188		0.0121		0.0149	
.0250	0.0102		0.0124		0.0119		0.0180

AFF-127 DIESEL VS JF-4(PET) 1981 SEPTEMBER 9

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 2 TOLUENE PPM VAR 3700	SIDE 2 0-XYL PPM VAR 3700	SIDE 2 M-XYL PPM VAR 3700	SIDE 2 124TMEBZ PPM VAR 3700	SIDE 1 CO PPM BYRON	SIDE 2 CO PPM BYRON	SII F: PF ECI
1 605	-175					0.21	0.21	٥,
1 810	-50						~ ~ ~ ~ ~ ~ ~	
1 835	-25					0.17		0.
1 845	-15	0.0368	0.0133	0.0699	0.0239		0.29	
1 1005	65					0.22		0.
1 1015	75						0.26	
1 1105	125					0.32		0.
1 1115	135	0.0342	0.0121	0.0638	0.0183		0.27	
1 1200	180			~~~~~~				
1 1205	185					0.33		0.
1 1215	195						0.38	
1 1305	245	^ ^ ~				0.38		0.
1 1315 1 1405	255 305	0.0327	0.0113	0.0568	0.0141			
1 1405	305 315					0.40		Ō.
1 1505	365					***	0.49	
1 1515	375					0.45		0,
1 1605	425		***************************************				0.55	
1 1615	435	0.0326	0.0110	0.0517	0.0140	0.41		٥.
1 1620	440	V+V526	0.0110	0.031/	0.0119		0.48	~~ ~~
1 1020	770							
2 810	1390							***
2 835	1415					0.55		0.
2 845	1425	0.0325	0.0123	0.0507	0.0108		0.70	
2 1005	1505					0.57		0,
2 1015	1515						0.53	
2 1105	1565					0.70	~	0.
2 1115	1575	0.0313	0.0111	0.0479	0.0098		0.71	
2 1200	1620			*** *** *** ***				
2 1205	1625				***	0.47		0,
2 1215	1635						0.66	
2 1305	1685				** ***	0.76		
2 1315	1695		****				0.69	-
2 1405	1745	*** *** *** *** ***				0.85		0.1
2 1415	1755	0.0303	0.0112	0.0462	0.0090		0.76	
2 1505	1805					0.86		0.1
2 1512	1812		*** *** *** *** ***			***	··· ·· · · · · · ·	
2 1515	1815						0.78	· · · · · · · · · · · · · · · · · · ·

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SIDE 1 CO PPM BYRON	SIDE 2 CO PPM BYRON	SIDE 1 PAN PFM ECD-3	SIDE 2 PAN PPM ECD-3	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA
0.21	0.21	0.000	0.000	0.038	0.015
0.17		0.000	0.000		
	0.29				
0.22	0.26	0.001	0.004		
0.32		0.013			
0+52	0.27		0.023		
				0.036	0.033
0.33		0.029			
	0.38		0.048		
0.38		0.047			
			0.072		
0.40		0.053			
	0.49		0.081		
0.45		0.049	0.083		
	0.55	0.048	V+V03		
0.41	0.48		0.077		
	V+40			0.094	0.115
				0.088	0.098
0.55		0.006			
	0.70		0.003		
0.57		0.015			
	0.53		0.018		
0.70		0.020			
	0.71		0.021	0.086	0.100
				0.000	
0.47		0.019	0.021		
	0.66				
0.76	0.69		0.019	and one mile date from a No.	
-	17+07	0.020			
0.85	0.76		0.019		
0.86		0.020			
				0.113	0.107
	0.78		0.019		

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE
CLOCK		PART.024	PART.024	PART.042	PART.042	PART + 075	PART.075	PART
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/
DY HR.	(MIN)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-(
1 605	-175	-1336.	-1336.	0.	0.	٥.	0.	(
1 835	-25	4.9E 04		5046.		5550.		776
1 845	-15		334.		0.		222.	
1 1005	65	2.6E 04		3915.		7548.	-	1.01
1 1015	75		6.2E 04		1.7E 04		7770.	
1 1105	125	4.1E 04		1653.		6926.		1.21
1 1115	135		2.6E 04		2.0E 04		2.3E 04	
1 1205	185	3.8E 04		4872.		1.3E 04		1.81
1 1215	195		3.9E 04		3915.		3.4E 04	
1 1305	245	7.3E 04		-4263.		1998.		1.21
1 1315	255		3.1E 04		3219.		2.1E 04	
1 1405	305	5.0E 04		-1044.		3641.	·	9421
1 1415	315		2.9E 04		1740.		1.5E 04	
1 1505	365	4.3E 04		4176.		1554.		7801
1 1515	375		2.6E 04		1218.		1.1E 04	
1 1605	425	4.0E 04		0.		1865.	****	670
1 1615	435		2.2E 04		696.		8924.	
2 835	1415	1002.		87.		222,		-16
2 845	1425		-334.		522.		0.	
2 1005	1505	1.7E 04		-1392.		1,4E 04		284
2 1015	1515		1169.		435.		-311.	
2 1105	1565	1837.		6612.		1.0E 04		829
2 1115	1575		501.		957.		-89.	
2 1205	1625	3340.		-957.		4440.		964
2 1215	1635		334.		1044.		0.	
2 1305	1685	2-15 04		1305.		3108.		927
2 1315	1695		1837.		783.		222.	
2 1405	1745	2.5E 04		522.		1643.		619
2 1415	1755		1837.		-522.		577.	~~~
2 1505	1805	1.6E 04		1479.		755.		486
2 1515	1815		2171.		348.		-400.	

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SIDE 1 PART.075 PART/CC TSI-023	SIDE 2 PART.075 PART/CC TSI-023	SIDE 1 PART.233 PART/CC TSI-023	SIDE 2 PART.133 PART/CC TSI-023	SIBE 1 PART.237 PART/CC TSI-023	SIDE 2 PART.237 PART/CC TSI-023
0. 5550. 7548. 6926. 1.3E 04 1998. 3641.	0. 222. 7770. 2.3E 04 3.4E 04 2.1E 04 1.5E 04 1.1E 04	0. 7760. 1.0E 04 1.2E 04 1.8E 04 1.2E 04 9423. 7808.	0. 723. 3904. 8266. 1.3E 04 1.1E 04 8965.	0. 3604. 3136. 4022. 5031. 6125. 6482. 4748.	0. 98. 394. 677. 1021. 1488. 1599. 1414.
222. 1.4E 04 1.0E 04 4440. 3108. 1643.	0. -311. -89. 0. 222.	-169. -2844. 8290. 9640. 9278. 6194. 	482. 747. 410. 313. 795.	344. 492. 1365. 1882. 2263. 2423.	98. 111. 172. 234. 0. 209.
755.	-400.	4868+	458.		185.

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AFF-127 DIESEL VS JP-4(PET) 1981 SEPTEMBER 9

CLOCH TIME		SIDE 1 PART.422 PART/CC	SIDE 2 PART.422 PART/CC	SIDE 1 PART.750 PART/CC	SIDE 2 PART.750 PART/CC
DY HR	(MIN)	TSI-023	TSI-023	TSI-023	181-023
1 605	5 -175	0+	0.	0.	0.
1 835	5 -25	700.		161.	
1 845	5 -15		33.		0 +
1 1005		514.		133.	
1 1015			0.	~	0.
1 110		794.		161.	
1 1115			87.		46.
1 1205		854.		168.	
1 1215			120.		35.
1 1305		1214.		235.	~~~~
1 1315			200.	~ ~	11.
1 1405		1214.		218.	-
1 1.415			153.		42,
1 150	-	1047.		277.	
1 1515			213.		35.
1 160		920.	ever east east talk age, and	225.	
1 161	5 435		113.		70.
2 83		80.		70.	
2 845			40.	10, per ses ses ses ses	28.
2 100		93.		0.	
2 1015			20.		4.
2 110		153.		70.	
2 1115			47.		21.
2 120		253.		35.	
2 121			20.		4.
2 130		300.		56.	
2 131			47.		0.
2 140		334.		91.	
2 141			0.		4.
2 150		374.	*** *** *** *** ***	140.	
2 151	5 1815		73.	100 total data and also total	18.

NOTES

A ACUALLY >100

0726: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 17.2 C DRY BULB: 30.4 R.H.= 25% DEW POINT: 7.8 C

0847: END FILL.

0923: INJECTED 5.0 ML. NO2. 0925: INJECTED 18.0 ML. NO.

0927: INJECTED 0.60 ML. PROPANE AND 0.60 ML. PROPENS.

0930: MIX BAG.

1115: UNCOVER BAG (T=0).

1120: WEATHER: HOT, SUNNY, AND SOME HIGH CLOUDS.

1335: SAMPING ENDED, RUN OVER.

RESULTS	SIDE 1	SIDE 2
CALC.AVG.OH (PPT)	0.032	0.030
CALC.RAD.INPUT (PPB/MIN)	0.075	0.065
-D(NO)/DT (PPB/MIN)	0.48	0.43

CALC. AVG. OH = 30.8 * D LN(PROPANE/PROPENE)/DT CALC. RAD. INPUT = 16.0 * (AVG.OH) * (60+MIN.AVG.NO2)

T=0 AT 1115 PST

ID

BAG NO. 24 USED

		VALUE			
Ŧ	DORIC-1	36.0	2.5	DEG C	SIDE 1
T	DORIC-1	36.4	2.7	DEG C	SIDE 2
UV RAD	EPPLEY-2	3∙0€	0.43	MW/CM2	
ID	INST.	INITIAL CONC.	UNITS		
NO	B-NOX-1	0.339	PPM	SIDE 1	
ОИ	B-NOX-1	0.339	PPM	SIDE 2	
NO2-UNC	B-NOX-1	0.100	PPM	SIDE 1	
NO2-UNC	B-NOX-1	0.100	PPM	SIDE 2	
PROPANE	ÚMS−1	0.0184	PPM	SIDE 1	
PROPANE	DMS-1	0.0184	PPM	SIDE 2	
PROPENE	DMS-1	0.0143	PPH	SIDE 1	
PROPENE	DMS-1	0.0143	PPM	SIDE 2	

INST. AVERAGE S.DEV UNITS

INSTRUMENTS USED

ID	LABEL	DESCRIPTION
1790	D-1790	DASIBI 1790 OZONE MONITOR
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG
4250	BYRON	BYRON 401 HYDROCARBON ANALYZER
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID
2100	PN-1	RM-121 POROPAK-N GC; FID
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D
3000	CA	CHROMOTROPIC ACID HCHO ANALYSIS
4000	ECD-3	AF-LAB; 12" 5% CARBOWAX-600 GC; ECD

809

AFF-128 NOX ALR IRRADIATION 1981 SEPT. 11

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 0ZONE PPM D-1790	SIDE 2 OZONE PPM D-1790	31DE 1 NO PFM B-NOX-1	SIDE 2 NO PPM B-NOX-1	SIDE 1 NO2-UNC PPM B-NOX-1	SIDE 2 NO2-UNC FPM B-NOX-1	IDE: NOX-UNI H-M B-NOX-:
1 1025 1 1045 1 1115 1 1130 1 1145 1 1200 1 1215 1 1230 1 1245 1 1300 1 1315 1 1330	-50 -30 0 15 30 45 60 75 90 105 120 135	0.000 0.000 0.000 0.002 	0.000 0.000 0.000 0.001 0.001	0.339 0.339 0.324 0.307 0.281	0.339 0.332 0.316 0.309 0.291	0.100 0.108 0.119 0.130 0.143	0.100 0.112 0.118 0.128 0.132 0.145	0.44° 0.45° 0.45° 0.44° 0.43°
CLOCK TIME DY HR.	ELAPSED TIME (MIN)	S.SET-1 THC PPMC BN6800-1	SIBE 2 THC PPMC BK6800-1	SIDE 1 PROPANE PPM DMS-1	SIDE 2 PROPANE PPM DMS-1	SIDE 1 PROPENE PPM DMS-1	SIDE 2 PROPENE PPM DMS-1	SIDE : T DEG (DORIC-:
1 1025 1 1045 1 1115 1 1130 1 1145 1 1200 1 1215 1 1230 1 1245 1 1300 1 1315 1 1330	-50 -30 0 15 30 45 60 75 90 105 120 135	2.51	2.51	0.0184 0.0185 0.0181 0.0171 0.0152 0.0172 	0.0184 0.0185 0.0185 0.0165 0.0175 0.0162 	0.0143 0.0141 0.0128 0.0114 0.0122 0.0125	0.0143 0.0143 0.0142 0.0121 0.0126 0.0113	32.7 35.0 34.0 37.3 38.4

SIDE 2 NO FPM I-NOX-1	SIDE 1 NO2-UNC PPM B-NOX-1	SIDE 2 NO2-UNC PPH B-NOX-1	SIDE 1 NOX-UNC PPM B-NOX-1	SIDE 2 NOX-UNC PPM B-NOX-1	eIDE 1 LNC3/C3=	SIDE 2 LNC3/C3=	
0.339 0.332 0.316 0.309 0.291 0.281	0.100 0.108 0.119 0.130 0.143 0.164	0.100 0.112 0.118 0.128 0.132 0.145	0.449 0.450 0.450 0.442 0.439	0.449 0.451 0.442 0.444 0.438	0.4610 0.4670 0.4530 0.4990 0.5480 	0.4610 0.4670 0.4730 0.5180 0.5390 0.5630 	
SIDE 2 PROPANE PPM DMS-1	SIDE 1 PROPENE PPM DMS-1	SIDE 2 PROPENE PPM DMS-1	SIDE 1 T DEG C DORIC-1	SIDE 2 T DEG C DORIC-1	UV RAD MW/CM2 EPPLEY-2	SIDE 1 NMHC PPMC BYRON	SIDE 2 NMHC PPMC BYRON
0.0184 0.0185 	0.0143 0.0141 0.0128 0.0114 0.0122 	0.0143 0.0143 0.0142 0.0121 0.0126 0.0113 	32.7 35.0 34.0 37.3 38.4	32.7 34.4 35.3 38.1 38.6	3.64 2.27 2.50 3.14 3.55 3.37 3.09 3.09 3.09	0.15 0.07 0.07 0.10	0.15 0.10 0.11 0.10 0.07

AFF-128 NOX AIR IRRADIATION 1981 SEPT. 11

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 THC PPMC BYRON	SIDE 2 THC PPMC BYRON	SIDE 1 CO PPM BYRON	SIDE 2 CO PPM BYRON	SIDE 1 PAN PPM ECD-3	SIDE 2 PAN PPM ECD-3	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA
1 1010	-65							0.006	0.006
1 1045	-30	2.38	2.38	1.10	1.10	0.000	0.000		~~~~
1 1115	0	2.38		1.12					
1 1130	15	***	2.33		1.24				
1 1145	30	2.44		1.34					
1 1200	45	~~~	2.46		1.23				-
1 1215	60	2.47		1.20					
1 1230	75		2.31		1.1.				
1 1245	90	2.44				~			
1 1300	105		2.38		1.13				
1 1315	120	2.46		1,30		0.000			~ /
1 1320	125				~	V 1 0 0 0			
1 1330	135		2.46		1.17		0.000	0.008	0.008

----- NO DATA TAKEN

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AFF-129
JF-4 VS. DIESEL
1981 SEPT. 15,16
DAY 1
      (SEPT. 15)
 0445: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 12.4 C
        DRY BULB: 18.2 C R.H. = 50% DEW POINT: 7.6 C
  0557: END FILL.
  9631: INJECTED 5.0 ML. NO2.
  0633: INJECTED 18.0 ML. NO.
  0635: MIX AND DIVIDE BAG.
  0646: INJECTED 550 MICROLITERS OF DIESEL FUEL INTO
        SIDE B AT 250 DEGREES C FOR 30 MINUTES.
  0701: INJECTED 370 MICROLITERS JP-4 INTO SIDE A.
  0720: MIX SIDE A, SIDE 8.
  0900: UNCOVER BAG (T=0).
  0905: WEATHER: SUNNY AND WARM.
  1620: END SAMPLING, DAY 1.
  1630: COVERED BAG.
DAY 2
       (SEPT. 16)
  0900: UNCOVER BAG.
  0905: WEATHER: HAZY. SUNNY, HOT.
  1520: END SAMPLING, RUN OVER.
RESULTS
                                          DAY 2
                      DAY 1
                      ____
                                          ____
                      36(+-2)
                                          38(4~3)
AVG.T(DEG.C)
                      2.1(+-0.8)
                                          2.3(+-0.6)
AVG.UV(MW/CM2)
T=0 AT 900 FST
BAG NO. 24 USED
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ID	INST.	AVERAGE	S.DEV	UNITS	
		VALUE			
T	DORIC-1	34.5	6.3	DEG C	SIDE 1
T	DORIC-1	34.8	5.9	DEG C	SIDE 2
UV RAD	EPPLEY-2	2.17	0.73	MW/CM2	
ID	INST.	INITIAL	UNITS		
		CONC.			
NO	B-NOX-1	0.350	PPM	SIDE 1	
NO	B-NOX-1	0.349	PPM	SIDE 2	
NO2-UNC	B-NOX-1	0.119	PPM	SIDE 1	
NO2-UNC	B-NOX-1	0.114	PPM	SIDE 2	
NHHC	BYRON	0.15	PPMC	SIDE 1	
NMHC	BYKON	0.15	PPMC	SINE 2	

AFF-129 JP-4 VS. DIESEL 1981 SEPT. 15,16

INSTRUMENTS USED

SAMPLING RATE (ML/MIN)

			KAIL
ΙĐ	LABEL	DESCRIPTION	(ML/MIN)
1790	D-1790	DASIBI 1790 OZONE MONITOR	
4600	B-NOX-1	BENDIX 8101BX NOX ANALYZER; SN300038-2	
1800	DORIC-1	DORIC TEMPERATURE INDICATOR, SN 61479	
4000	ECD-3	AF-LAB; 12° 5% CARBOWAX-600 GC; ECD	
4131	EPPLEY-2	EPPLEY 14290 UV RADIOMETER; UNDER BAG	
4250	BYRON	BYRON 401 HYDROCARBON ANALYZER	
4300	TSI-023	TSI ELECTRICAL AEROSOL ANALYZER MD:3030	
4350	CLIMET	CLIMET 208 OPTICAL PART, CTR; SN:76-148	
4400	MRI-388	MRI INTEGRATING NEPHELOMETER MD:1550#	
4200	CNC-143	ENV ONE RICH100 CONDENS NUCLEI CTR; SN1 43	3
2650	VAR 3700	VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FII)
2200	DMS-1	RM-121; DIMETHYLSULFOLANE GC; FID	
2190	PN-2	RM-103; 5' POROPAK-N GC; FID	
4850	BK6800-1	BECKMAN CO, HC ANALYZER SN:100015D	
3000	CA	CHROMOTRUPIC ACID HCHO ANALYSIS	

61

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AFF-129 JF-4 VS. DIESEL 1981 SEPT. 15,16

		SIDE 1	SIBE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1
CLOCK	ELAPSED	OZONE	OZONE	NO	NO	NO2-UNC	NO2-UNC	NOX-UNC
TIME	TIME	PPM	PPM	PPM	PPM	PPM	PPM	PPM
DY HR.	(MIN)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-N0X-1	B-NOX-1	B-N0X-1
1 605	-175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1 835	-25	0.004		0.350		0.119		0.470
1 845	-15		0.039	*** *** *** *** ***	0.349		0.114	
1 1005	65	0.011		0.231		0.214		0.456
1 1015	75		0.043		0.108		0.322	
1 1105	125	0.047		0.068		0.317		0.423
1 1115	135		0.160		0.014		0.362	
1 1205	185	0.214		0.010		0.375		0.368
1 1215	195		0.325		0.009		0.266	
1 1305	245	0.455	***	0.001		0.307		0.290
1 1315	255		0.445		0.000	-	0.156	
1 1405	305	0.626		0.007		0.232		0.233
1 1415	315		0.454		0.003		0.102	
1 1505	365	0.684		0.000		0.170		0.170
1 1515	375		0.429		0.002		0.079	
1 1605	425	0.674		0.003		0.139		0.140
1 1615	435		0.392		0.000		0.070	
2 835	1415	0.441		0.000		0.048		0.046
2 845	1425		0.241		0.000		0.030	
2 1005	1505	0.413		0.000		0.048		0.049
2 1015	1515		0.224		0.000		0.037	
2 1105	1565	0.403		0.000		0.057		0.056
2 1115	1575		0.231	then what after gone lifty type	0,000		0.042	
2 1205	1625	0.400		0.000	~~~~	0.059		0.057
2 1215	1635		0.249		0.000		0.042	
2 1305	1685	0.403		0.000		0.058		0.058
2 1315	1695		0.254		0.000		0.047	
2 1405	1745	0.404		0.000		0.053		0.053
2 1415	1755		0.254		0.000		0.041	
2 1505	1805	0.392		0.000		0.052		0.051
2 1515	1815		0.241		0.000		0.038	

NO DATA TAKEN

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DE 2 NO PM	SIDE 1 NO2-UNC PFM	SIDE 2 NO2-UNC PPM	SIDE 1 NOX-UNC PPM	SIDE 2 NOX-UNC PPM	SIDE 1 NMHC PPMC	SIDE 2 NMHC PPMC
0X-1	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	BYRON	BYRON
.000	0.000	0.000	0.000	0.000	0.15	0.15
	0.119		0.470		21.90	
.349		0.114		0.462		10.00
	0.214		0.456		21.50	
.108		0.322		0.430		11.00
	0.317	A	0.423		20.50	40.70
.014		0.362		0.357	~~~~	10.70
	0.375		0.368		20.60	
.009		0.266		0.258	~~ ~~	9.00
	0.307		0.290	~ ~ ~ ~ ~ ~	20.00	
.000		0.156		0.156		8.20
	0.232		0.233		19.40	
.003		0.102		0.104		8.00
	0.170		0.170		18.40	
002		0.079		0.080		8.30
	0.139		0.140		17.00	
.000		0.070		0.069		9.20
	0.048		0.046	agin arm and this rest store	19.70	
.000		0.030		0.028	**** **** **** **** ****	7.80
	0.048		0.049		18.00	
.000		0.037		0.937		8.10
	0.057		0.056		18.50	
.000		0.042	~~~~~	0.041		8.10
	0.059		0.057		17.30	
.000		0.042		0.041		7.50
	0.058		0.058		15.90	
.000		0.047		0.046		6.90
	0.053		0.053	derive cares freing derive wantly proper	16.20	
.000		0.041		0.040	ents since Abbe typic bytel byte	7.60
	0.052		0.051		16.70	
.000		0.038		0.040		7.30

		SIDE 1	SIDE 2	SIDE 1	SIDE 2		SIDE 1	SIDE
CLOCK	ELAPSED	THC	THC	T	7	UV RAD	CONDENS	CONDE
TIME	TIME	PPMC	PPMC	DEG C	DEG C	MW/CH2	10E3/CC	10E3/0
DY HR.	(MIN)	BK6800-1	BK6800-1	DORIC-1	DORIC-1	EPPLEY-2	CNC-143	CNC-14
1 605	-175	4.97	4,97	18.0	18.0	****	0.0	0.0
i 835	-25	27.50	***********	26.4			0.0	
1 845	-15		10.20		28.3			17.€
1 1005	65	25.20		31.5		1.77	49.0	No. 274 275 1944 14
1 1015	75		9.16		32.7	2.27		15.1
1 1105	125	26.30	matematican and and	34.7		3,00	32.0	
1 1115	135		10.60	~	36,2	2.91		13.7
1 1205	185	22.90	~ ~ ~ ~ ~ ~	36.8		3.09	24.7	
1 1215	195		9.16		37.1	3.09		12.0
1 1305	245	21.80	~ ~ ~ ~ ~ ~	38.4		2.45	19.0	***
1 1315	255		9.05	*** *** *** *** ***	38.8	2.32		9 + ⋵
1 1405	305	22.90	~~ ~~ ~~ ~~ ~~	38.0		1.96	14.9	
1 1415	315		8.36		37.4	1.87		8.0
1 1505	365	22.90		37.1		1.37	11.9	
1 1515	375		9.85		35+8	1.32		4.9
1 1605	425	21.80		34.6		0,77	9.1	Mary and their most find
1 1615	435		11.30	***************************************	32.9	0.68	-	6.2
2 835	1415	18.30		26.7	·· ·· ·· ·· ·· ··		0.2	MSS 1444 SWS 4487 AVE
2 845	1425				28.4			0.4
2 1005	1505	18.30		32,1		1.82	0.2	
2 1015	1515		7.44		33.8	2.14		1.5
2 1105	1565	21.80		36.5		3.09	0.4	
2 1115	1575		8.59		37.6	3.05		2,4
2 1205	1625	20.60		39.1	~ · · · · · ·	2.91	0.4	
2 1215	1635		9.16		39.8	2.84	***	2.0
2 1305	1685	19.50		41.6		2.50	0.4	994, park 988, gam 4489
2 1315	1695		9.16		41.4	2.41		1.7
2 1405	1745	20.60		40.9		2.09	0.2	date 1504 page and 1544
2 1415	1755		8.47		39.7	2.00		1 + 4
2 1505	1805	21.80		39.8	-	1.41	0.2	
2 1515	1815		9.27	Mile type arise pilet baid grows	38.5	1.28		1.2

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UV RAD MW/CM2 EPFLEY-2	SIDE 1 CONDENS 10E3/CC CNC-143	SIDE 2 CONDENS 10E3/CC CNC-143	SIDE 1 #PART>.3 PART/CC CLIMET	SIDE 2 #PART>.3 PART/CC CLIMET	SIDE 1 #FART>.5 PART/CC CLIMET	SIDE 2 #PART>.5 PART/CC CLIMET
	0.0	0.0	٥.	0.	0.	0.
	0.0		0.		0.	
		17.6		* 523 ⋅		486.
1.77	49.0		0.		0.	
2.27		15.1		515 ₊		454.
3.00	32.0		0.		0 +	
2.91		13.7		512.		443.
3.09	24.7	send their state may risk black	0.		0 +	
3.09		12.0		522.		470.
2.45	19.0		1.		0.	484.
2.32		9.6		524.	4	484 •
1.96	14.9		102.		1.	490.
1.87		8.0		528.	16.	470.
1.37	11.9		248.	528.	10+	438.
1.32		6.9		328+	40.	
0.77	9.1		303.	527•		482.
84.0		6.2		327+		1024
	0.2		123.		5.	
		0 . 4		429.		249.
1.82	0.2		181.		16.	
2.14		1.5		466.		286.
3.09	0.4		246+		33.	
3.05		2.4		440.		336.
2.91	0.4		282.		49.	
2.84		2.0		456.		341.
2,50	0.4		269.		51.	
2.41		1.7		464.		347.
2.09	0.2		243.		53.	350.
2.00		1 + 4		468.	56.	330+
1.41	0.2		213.		20.	344.
1.28		1.2		462.		344+

AFF-129 JP-4 VS. DIESEL 1981 SEPT. 15,16

		SIDE 1	SIDE 2	SIDE 1	erne o	OTDE 4	CIDE C	0775
CLOCK	LIVECEU	#PART>1	#PART>1	BSCAT	SIDE 2	SIDE 1	SIDE 2	SIDE
TIME	TIME	PART/CC	PART/CC	10-4 M-1	BSCAT 10-4 M-1	AER+V	AER+V	AER+1
DY HR.	(MIN)	CLIMET	CLIMET	MRI-388	MRI-388	UM3/CC TSI-023	UM3/CC	PART/(
DI HK+	CHILKY	CLINE	CLIME	UK1-200	MK1-388	181-023	TSI-023	TSI-0:
1 605	-175	0.	0.	0.0	0.0	1.	1.	-1122.
1 835	-25	٥.		0.2		2+		1224
1 845	-15		348.		97.0		69.	
1 1005	65	٥.		0.2		5.		4.8E
1 1015	75		265.		75.0		64.	
1 1105	125	0,		0.3		10.		7.5E
1 1115	135		237.		83.0		76.	
1 1205	185	٥.		1.1		30.		5,6E
1 1215	195		293.		100.0 A		118.	
1 1305	245	٥.		4.6		39.	last with the figure office mark	5.4E
1 1315	255		335.		100.0 A		148.	
1 1405	305	0.		9.7		44.		7.5E
1 1415	315	Type Midd Norw creds into a sade	343.		100.0 A		53.	
1 1505	365	٥.		15.0		58.		5.0E
1 1515	375		336.	~	100.0 A		103.	
1 1605	425	٥,		16.4		62.		4.7E
1 1615	435		319.	sers fabr heat with also seen.	100.0 A		99.	
		_						
2 835	1415	٥.		2.5		3.		1539
2 845	1425	-	38.		14.0		12.	
2 1005	1505	0.		3.1	p'v dans neer 20th dans dans	2.		2366.
2 1015	1515		58.		13.2		25,	
2 1105	1565	0.		3.5		4.		2158.
2 1115	1575		76.		16.0		22.	
2 1205	1625	0.		4.0		15.		4507.
2 1215	1635		94.		23.0		26.	-
2 1305	1685	1.		4.1	*** *** *** *** **	6.		1892.
2 1315	1695		105.		26.0		22.	
2 1405	1745	i.		3.8		6.		2731.
2 1415	1755		11C.		26.0		22.	efer een een mei een
2 1505	1805	1.		3.6		7.	*** *** *** *** ***	3384.
2 1515	1815	· · · · · · · · · · · · · · · · · · ·	105.		25.0		27.	

- NO DATA TAKEN

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E 2	SIDE 1	SIDS 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
ΑT	AER.J	AER.V	AER • N	AER.N	AER+S	AER.S
M-1	UM3/CC	UM3/CC	PART/CC	PART/CC	UM2/CC	UM2/CC
388	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023
. 0	1.	1.	-1122.	-1122.	6.	6,
	2.		1224.		28.	*** *** *** ***
. 0		69.		8.8E 04		2148.
	5.		4.8E 04	*** *** *** *** ***	338.	
. 0		64.		6.4F 04		1895.
	10.		7.5E 04		561.	
0		76.	the trust tent code error take	7.8E 04		2167.
	30.		5.6E 04		996.	
.O A		118.		7.4E 04		2810.
	39.		5.4E 04		1273.	-
.O A		148.		8.2E 04		2985.
	44.		7.5E 04		1474.	
.O A		53.		8.1E 04		2055.
	58.		5.0E 04		1515.	
0 A		103.		7.5E 04		2393.
	62.		4.7E 04		1435.	
.O A		99+		6.5E 04		2184.
	3.		1539.		88,	****
0		12.		5957.		272.
. 2	2.		2366.		67.	
2		25.		8384.		354.
	4.	***************************************	2153.		98.	
• 0		22.		1.4E 04		437.
	15.		4507.		140.	
, 0		26.		1.4E 04		541.
	6.		1892.		112.	
. 0	-	22.		1.7E 04		522.
	6.		2731.		120.	
0		22.		1.6E 04		501.
	7.	***********	3384.		130.	
O		27.		1.1E 04		523.
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AFF-129 JP-4 VS. DIESEL 1981 SEPT. 15,16

		SIDE 1	SIDE 2	SIDE 1	SIDE 1	SIDE 1	SIDE 1	SIDE 1
CLOCK	ELAPSED	N-C5	N-C5	N-C6	N-C7	MECYC-C6	N-C8	N-C9
TIME	TIME	PPM	rem	PPM	P P M	PPM	PPM	FPM
DY HR.	(MIN)	DMS-1	DMS-1	VAR 3700	VAR 3700	VAR 3700	VAR 3700	VAR 370
1 605	-175				-		grand daught spining resigns grades	,000 Plan spin 1801 1809 pro
1 730	-90	** ** ** ** **		0.1102	0.1174	0.0723	0.1140	0.0498
1 735	-85			****				
1 845	-15							
i 1005	65			0.1097	0.1187	0.0746	0.1093	0.0509
1 1115	i35				*** *** *** *** ***	-		
1 1205	185			0.1083	0.1119	0.0670	0.1067	0.0451
1 1315	255	********					Mark 1600 D.V. 1000 COST 0000	
1 1505	365			0.1102	0.1088	0.0618	0.0879	0.0437
1 1315	375		0.0014					
1 1605	425	0.0381						
1 1615	435	*** *** **** *** ***						
2 720	1340	*** *** *** *** *	0.0014			NOT 140 POR 1700 POR 570	AND DOGS DAMA WHO DOGS GIVE	
2 745	1365	0.0373		tions had asset the past who				
2 835	1415	**** **** **** **** ****		0.1095	0.1095	0.0640	0.0867	0.0426
2 1005	1505			0.0988	0.1012	0.0563	0.0890	0.0389
2 1115	1575	*** *** *** *** ***						
2 1205	1625	MS 1404 0110 1104 10 100		0.0977	0.0988	0.0538	0.0792	0.0363
2 1405	1745			0.1020	0.0986	0.0543	0.0810	0.0369
2 1505	1805	0.0354						
2 1515	1815		0,0020	core some apply place rates cores	MAY 1980 9780 Miles Sales Sales		they black about the backs and the	

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1 7 700	SIDE 1 MECYC-C6 PPM VAR 3700	SIDE 1 N-C8 PPM VAR 3700	SIDE 1 N-C9 PPM VAR 3700	SIDE 2 N-09 PPM VAR 3700	SIDE 1 N-C10 PPM VAR 3700	SIDE 2 N-C10 PPM VAR 3700
74	0.0723	0.1140	0.0498		0.0394	
				0.0057		0.0054
	0.0746	0.1093	0.0509		0.0338	
87 	0.0740			0.0054		0.0052
19	0.0670	0.1067	0.0451		0.0320	0.0053
			0.0437		0.0286	
88	0.0618	0.0879				
			The man of the last man one	0.0061		0.0053
						0.0053
 95	0.0640	0.0867	0.0426		0.0277	
	0.0563	0.0890	0.0389		0.0281	
012				0.0056		0.0057
000	0.0538	0.0792	0.0363		0.0256	
788 786	0.0543	0.0810	0.0369		0.0247	
				0.0053		0.0048

AFF-129 JF-4 VS. DIESEL 1981 SEPT. 15:16

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 N-C11 PPM VAR 3700	SIDE 2 N-C11 PPM VAR 3700	SIDE 1 N-C12 PPM VAR 3700	SIDE 2 N-C12 PPM VAR 3700	SIDE 1 N-C13 PPM VAR 3700	SIDE 2 N-C13 PPM VAR 3700	SIDI N-C PPI VAR
1 730 1 845 1 1005 1 1115 1 1205 1 1315 1 1505 1 1615	-90 -15 -65 135 185 255 36 430	0.0385 0.0375 0.0353 	0.0098 0.0091 0.0091	0.0293 0.0310 0.0294 0.0270	0.0144 0.0134 0.0138 0.0128	0.0244 0.0241 0.0213 	0.0255 0.0221 0.0212 	0.0:
2 720 2 835 2 1005 2 1115 2 1205 2 1405 2 1515	1340 1415 1505 1575 1625 1745 1815	0.0297 0.0299 0.0270 0.0254	0.0084 0.0093 0.0078	0.0220 0.0224 0.0200 0.0205	0.0157	0.0154 0.0151 0.0136 0.0126	0.0241	0.01

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SIDE 1 N-C13 PPM VAR 3700	3IDE 2 N-013 PPM VAR 3700	SIDE 1 N-C14 PPM VAR 3700	SIDE 2 N-C14 PPM VAR 3700	SIDE 2 N-C15 PPM VAR 3700	SIDE 1 TOLUENE PPM VAR 3700	SIDE 1 O-XYL PPM VAR 3700
0.0244 0.0241 0.0213 	0.0255 0.0221 0.0212 	0.0194 0.0173 0.0183 	0.0324 0.0265 0.0241 0.0190	0.0466 0.0460 0.0403 	0.0388 0.0383 0.0356 	0.0157 0.0142 0.0129
0.0154 0.0151 0.0136 0.0126	0.0241	0.0106 0.0097 0.0097 0.0083	0.0267 0.0195 0.0141	0.0477	0.0367 0.0323 0.0298 0.0321	0.0127 0.0123 0.0101 0.0107

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CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 M-XYL PPM VAR 3700	SIDE 1 124TMEBZ FPM VAR 3700	SIDE 1 PAN PPM ECD-3	SIDE 2 PAN PPM ECD-3	SIDE 1 - HCHO PPM CA	SIDE 2 HCHO PPM CA	SIDE PART. PART/ TSI-C
1 605	-175	THE New older task was some	alas 604 apis 200 tag gain	0.000	0.000		when their table vibra and p	-1670
1 730	-90 =0	0.0742	0.0241				***	white sample state state
1 810 1 835	-50 -25		man year and also also below		many paper make place year	0.006	0.004	
1 835 1 845	-15			0.000		need done have done man maps	Annual water where there are and	1169
1 1005	-15 65	0.0708	0.0225	0.002	0.000	area with man roll own man	the sam and their bill, the	
1 1015	75	0.0708	0+0850	0:002	0.004		*** *** *** *** ***	6.4E
1 1105	125			0.007	0.004	the 196 of any and the same	~ ~ ~ ~ ~ ~	
1 1115	135	Proc. 1000 2004 2007 2004 ami		0.007	0.014	ment Jam were ends new layer		4.1E
1 1200	180	all sope organism after after			V+V14	0.015	0.023	~
1 1205	185	0.0652	0.0192	0.022		0.013	U+V£3	1.6E
1 1215	195	717002			0.031	nate and also tred unto taxas		1+06
1 1305	245			0.042	01031			2.5E
1 1315	255			V+V7£	0.046			Z+JE
1 1405	305	And there are there made them	****	0.061	~~~~			2.6E
1 1415	315				0.052			
1 1505	365	0.0565	0.0135	0.074				2.4E
1 1515	375				0.060			
1 1605	425			0.080				2.4E
1 1610	430			-		0.050	0.063	
1 1615	435				0.058			THE PRO ASS. THE
2 810	1390		and one the few had not	16,16 som oven sept and base	**** **** **** ****	0.088	0.084	****
2 835	1415	0.0555	0.0129	0.016		V+V00	0.004	-835
2 845	1425		V. 0127	V + V I U	0.013	PAGE THE GAVE SHOW THEY	100 MM 100 - 11 - 10	-033
2 1005	1505	0.0519	0.0121	0.026	V+V13	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		1336
2 1015	1515		~ ~ ~ ~ ~ ~ ~	»	0.022		**** w \$656	1330
2 1105	1565		***************************************	0.028				1336
2 1115	1575				0.025		··· ·· · · · · · · · ·	
2 1200	1620					0.071	0.077	
2 1205	1625	0.0488	0.0105	0.029	~			4342
2 1215	1635				0.021			
2 1305	1485			0,024				1336
2 1315	1695		~	-7 Mat ton 400 am	0.018			
2 1405	1745	0.0483	0.0098	0.021				1670
2 1415	1755				0.018		*************	
2 1505	1805			0.019				2171
2 1510	1810	and this was one size was				0.100	0.092	
2 1515	1815			***************************************	0.016			

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2	SIDE 1 HCHO	SIDE 2 HCHO	SIDE 1 PART.024	SIDE 2 PART.024	SIDE 1 PART.042	SIDE 2 PART.042
i	PPM	PPM	PART/CC	PART/CC	PART/CC	PART/CC
ż	CA	CA	TSI-023	TSI-023	TSI-023	TSI-023
ľ	Ų fi	Wn.	IOI VLO	101 020	101 620	101 020
þo	the of the organ court after the total tot	man anns anns anns anns anns	-1670.	-1670.	609.	609.
		0.004		A		
	0.006	0.004	1169.			
			1107.		0.	
00			6.4E 04	5.1E 04	=43848	5307.
E .			0+45 04		~43040	4959.
04	ages and ages some bags spec			2.7E 04		
			4.1E 04		2.0E 04	~~~~
14				4.7E 04		261.
	0.015	0.023				
			1.6E 04	and any any that are	1,2E 04	
31		and the same of the same of	mate when the time were man	4.2E 04		2349.
l	most 1886 spiny year form Africa		2.5E 04		87,	
46			بالاه خين ي ک بندو جيبه کاد.	5.5E 04		3741.
			2.6E 04		1.1E 04	
52				1.7E 04	~~~~	2.0E 04
 			2.4E 04	والمراجعة والمراجعة والمراجعة	~435.	
60		***		5.5E 04	-	-783.
			2.4E 04		522.	
Ī	0.050	0.063			~	
58				4.7E 04	~ ~ ~ ~ ~ ~	-1479.
	0.088	0.084		era, work made alone acres about		ante como mort tama como mas-
	V+V00		-835.	been made upon their total time.	870.	يني شير بنيه نيب جي الك
013		Name and Advanced and Advanced	5551	3340.	Q / V •	522.
113		**** Alle San Mile 174	1336.	2070	174.	322+
D22			7996+	5344.	1/4+	783.
				33444		/00+
	\$100 MAY 1000 MAY 100		1336,		0.	
025				9018.	No. 100 500 100 100 100	261.
	0.071	0.077				
			4342,		~174.	
b21			بيت سد مده ده ده ده د خود وداد د	9686,	***	-261.
		the feet the state with their	1336,		-522,	
018	come this was such uses being	~ m ~ m ~ =		1,2E 04		174.
			1670.	2012 Per per des san cer.	87.	4 m
018			***	1.0E 04		1218.
			2171.		87.	
	0.100	0.092	and the same and the	and the other part with	~ ~ ~ ~ ~ ~	And 1700 1707 1700 1701 1701
016			***	8517.	~	~348.

AFF-129 JP-4 VS. DIESEL 1981 SEPT. 15,16

CLO TIM	E TIME	SIDE 1 PART.075 PART/CC	SIDE 2 PART.075 PART/CC	SIDE 1 PART.133 PART/CC	SIDE 2 PART.133 PART/CC	SIDE 1 PART.237 PART/CC	SIDE 2 PART.237 PART/CC	SIDE PART.4 FART/C
Dist	(MIN)	TSI-023	TSI-023	TSI-023	TSI-C23	TSI-023	TSI-023	TSI-02
- 1 60	5 -175	-89.	-89.	24.	24.	0.	0.	0.
1 83	5 -25	Ö.	an un	0.		25.		27.
1 84	5 -15		1.1E 04		1.5E 04		4280.	2000 1000 2504 Sales 11111
1 100	5 65	2.7E 04		-72.	THE THE REAL PROPERTY AND ADDRESS.	-148.		27.
1 101	5 75		1.5E 04		1,4E 04		3050.	
1 110	5 125	1.2E 04		1976,		:35,		47.
1 111	5 135		1.1E 04	and the felt man with some	1.6E 04	يحدد فيشد مدان ينيور بياوا عالي	3850.	
1 120	5 185	2.2E 04		5422.		369.		100.
1 121	5 195		6083.		1.7E 04	tiple jack look the ways were	5966.	
1 130		1.8E 04	344 may day 704 day 145	9110.		1193.		253.
i 131			စ်ရှစ် ເ	24 year mar or 6 mg ang	1.5E 04		6273.	
1 140		2.7E 04		9833.		910.		100.
1 141			2,7E 04		1.5E 04		3247.	
1 150		1.2E 04		1,2E 64		1796.	~	253.
1 151			3197.		1.1E 04		6273.	
1 160		9013.	and the property and one	1.2E 04		1365.		213.
1 161	5 435		1998.	100 me === 100 Mb .cm	1.2E 04		4502.	
2 93	5 1415	400.	TOTAL MARK AND SAME STATE	1060.		37.	are take they want that the	0.
2 84	5 1425	~~~~	533.		651.		775.	
2 100	5 1505	89.	AND AND NO. OF THE REAL	530.	~	263.		-53+
2 101			622.	~~~~~	843.	~~~~	652+	
2 110		0 .		554.		221.	** ** ** ** **	47,
2 111			1154.		2362+	78 the last real real real	849.	
2 120		-355,	med and use som type som	603.		111.		-100+
2 121			488.		2579.		1119.	
2 130		311.		554.		123.		87.
2 131			404.	~ ~ ~ ~ ~ ~	3133.	ton has also one one'	1095.	
2 140		355.		289.	are then the and some one	246.		80.
2 141			222.	the time and off the diff	2796.	facts many hand error with obest	1119.	
2 150		59.		771.	No. 200 and and the star	209.		47.
2 151	5 1815		-444.		1783.		1168.	

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NOTES

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2 133 00 23	SIDE 1 PART.237 PART/CC TSI-023	SIDE 2 PART,237 PART/CC TSI-023	SIDE 1 PART.422 PART/CC TSI-023	SIDE 2 PART.422 PART/CC TSI-023	SIDE 1 PART.750 PART/CC TSI-023	SIDE 2 PART.750 PART/CC TSI~023
04	0. 25. -148. -135. 	0. 4280. 3050. 3850.	0: 27: 27: 47: 100:	387. 287. 400.	4.	4. 11. 46. 49.
04	910.	6273. 3247. 6273. 4502.	100. 253. 213.	940, 40. 760, 800,	70. 81. 123.	218. 18. 70. 95.
3.	37. 283. 221. 111. 123.	775. 652. 849. 1119.	0. -53. 47, -100. 87.	133. 67. 67. 227. 130.	7. 7. 0. 81. 4.	4, 74. 46. 28. 14.
 उ.	209,	1168.	47.	313.	11.	21.

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AFF-130 PROPENE/NOX CONDITIONING 1981 SEPT. 17

0600: START FILL. WET: 6.0 DRY: 0.0 WE1 BULB: 16.3 DRY BULB: 28.3 R.H.= 27% DEW POINT: 7.3 C

0716: END FILL.

0725: INJECTED 11.0 ML. NO2.

0727: INJECTED 12.0 ML. NJ.

0729: INJECTED 22.5 ML. PROPENE.

0731; MIX RAG.

0900: UNCOVER BAG (T=0).

0905: WEATHER: SUNNY AND HOT.

1400: RUN OVER, BAG DUMPED.

T=0 AT 900 PST

619

BAG NO. 24 USED

TNSTRUMENTS USED

ID LABEL DESCRIPTION

1790 D-1790 DASIBI 1790 GLONE MONITOR

4606 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2

2200 DMS-1 RM-121; DIHETHYLSULFOLANE GC; FID

CLOCK	ELAPSED	OZONE	NO	NO3NMC	MOX-UNC	PROPENE
TIME	TIME	F F M	P P M	PPM	PPM	PPM
DY HR.	(MIN)	D-1790	B-NOX-1	B-MOX-1	B-NOX-1	DMS-1
1 740	-80					C+4947
1 850	-10	0:001	0.220	0.227	0.462	
1 1400	300	0.740	0.000	0.201	0.196	

---- NO DATA TAKEN

0445: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 13.6 C

0556; END FILL.

0632: INJECTED 5.0 ML. ND2.

0634: INJECTED 18.0 ML. NO.

0637: MIX AND DIVIDE BAG.

9647: INJECTED 550 MICROLITERS DIESEL FUEL INTO SIDE A AT 250 DEGREES C FOR 30 MINUTES.

9721: INJECTED 125 ML. OF N-BUTANE INTO SIDE B.

0725: MIX SIDE A, SIDE B.

0900: UNCOVERED BAG (T=0).

0905: WEATHER: SOME HIGH CLOUDS, BUT SUNNY.

1620: END SAMPLING, RUN OVER.

T=0 AT 900 PST

BAG NO. 24 USED

ID	INST.	AVERAGE VALUE	S.DEV	UNITS	
τ	DORIC-1	33.4	5.6	DEG C	SIDE 1
T	DORIC-1	33.6	5.6	DEG C	SIDE 2
UV RAD	EPPLEY-2	1.97	0.81	MW/CM2	
In	INST.	INITIAL CONC.	UNITS		
ио	B-NOX-1	0.341	PPM	SIDE 1	
NO	B-NOX-1	0.348	PPM	SIDE 2	
NO2-UNC	B-NOX-1	0.111	PPM	SIDE 1	
NO2-UNC	B-NOX-1	0.113	የ ዮሐ	SIDE 2	
имнс	BYRON	0.26	PPMC	SIDE 1	
NHHC	BYRON	0.26	PPHC	SIDE 2	

0.0008

INSTRUMENTS USED

DMS-1

DESCRIPTION LABEL BASIBI 1790 OZONE MONITOR 1790 D-1790 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 DORIC TEMPERATURE INDICATOR, SN 61479 1800 DORTC-1 AF-LAB; 12" 5% CARBOWAX-600 GC; ECD 4000 ECD-3 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG 4250 BYRON BYRON 401 HYDROCARBON ANALYZER 4300 TSI-023 TSI ELECTRICAL AEROSOL ANALYZER MD:3030 CLIMET 208 OFTICAL PART, CTR; SN:76-148 4350 CLIMET 4400 MR1-388 MRI INTEGRATING NEPHELOMETER MD:1550B 4200 CNC-143 ENV ONE RICH100 CONDENS NUCLEI CTR; SN143 2650 VAR 3700 VARIAN GC; 30M SE-54 QUARTZ CAP. GC; FID 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID RM-103; 5' POROPAK-N GC; FID 2190 PN-2 1400 VA1400-7 RM-121; C20-M/DC-703 GC; FID 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS

PPM^{*}

SIDE 2

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N-C4

AFF-131 DIESEL VS. N-BUTANE 1981 SEPT. 18

	1/01 04	, , ,,,							
			SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2 NO2-UNC	SIDE 1 NOX-UNG
	CLOCK	ELAPSED	OZONE	OZONE	ИО	NO	NO2-UNC	FPM	FPM
	TIME	TIME	PPM	PPM	PPM	PPM	PPM B NOV1	B-MOX-1	
	DY HR.	(MIN)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	P. HOV I	
		475	0.000	0.000	0.000	0.000	0.000	0.000	0.270
	1 605	-175 -25	0.042		0.341		0.111		0.467
	1 835	-25 -15		0.009		0.348		0.113	
	1 845	-13	0.046		0.152		0.270		0.439
	1 1005	75		0.014		0,258		0.192	
	1 1015 1 1105	125	0.117		0.027		0.362		0.38(
	1 1115	135		0.011		0.173		0.278	
	1 1205	185	0.295		0.010		0.270		0.270
	1 1205	195		0.021		0.097		0.355	
	1 1305	245	0.455		0.000		0.151		0.15
	1 1315	255		0.059		0.042		0.408	0.09
	1 1405	305	0.470		0.001		0.088	0.427	U+U7'
	1 1415	315		0.089		0.021		0+427	0.06
	1 1505	365	0.431		0.004	print party 1000 5500 5500 5500	0.065		
	1 1515	375		0.116	ALC: N	0.010		0.420	0.05
	1 1605	425	0.395		0.004		0.053	0.421	
	1 1615	435		0.130		0.010	many many passer states against stated	0+421	
			ATRE 4	SIDE 2	SIDE 2	SIDE 2	SIDE 1	SIDE 2	
			SIDE 1	THC	N-C4	N-C4	T	T	UV RA
	CLOCK	ELAPSED	THC	PPMC	PPM .	PPM	DEG C	DEG C	MW/CM
रु	TIME	TIME	PPMC BK6800-1	BK6800-1	VA1400-7	DMS-1	DORIC-1	DORIC-1	EPPLEY
<u> </u>	DY HR.	(MIM)	BV0000-1	BK0000 1	****				
	1 605	-175	3.66	3.66		0.0008	21.8	21.8	
	1 755	-65			5.060	5.657			
	1 835	-25	9.16				27.7		
	1 845	-15		30.90				28.5	1.73
	1 1005	65	7.79				32.1	33.3	2.14
	1 1015	75		27.50	5.018			20+3	2.91
	1 1105	125	9.16				36.3	37.2	2.68
	1 1115	135		27.50	4.987			3/+2	2.73
	1 1205	185	9.05				38.1	38.5	2.86
	1 1215			27.50	4.935		39.5		2.54
	1 1305		8.82				37.3	39.7	2.68
	1 1315			27.50	4.894		37.3		1.82
	1 1405	305	8.82				3/+3	37.2	1.88
	1 1415	315		27.50	4.852		34.4		1.07
	1 1505	365	9.73		A 050		J7+7	33.5	0.98
	1 1515	375		27.50	4.852		33.0		0.80
	1 1605		9.27			5.452		33.0	0.71
	1 1615	435		27.50	4.852	71475			

NO DATA TAKEN

435

T UV RAD CONDENS CONDENS *PART>.3 *FA PM DEG C DEG C MW/CM2 10E3/CC 10E3/CC PART/CC PART S-1 DORIC-1 DORIC-1 EPPLEY-2 CNC-143 CNC-143 CLIMET CL 0008 21.8 21.8 0.0 C.0 0. 27.7 5.6 543 28.5 0.0 32.1 1.73 5.3 533 33.3 2.14 0.0 36.3 2.91 5.2 529 37.2 2.68 0.0	E 2 10 M IX-1	SIDE 1 NO2-UNC PPM B-NOX-1	SIDE 2 NO2-UNC FPH B-NOX-1	SIDE 1 NOX-UNC PPM	SIDE 2 NOX-UNC PFM	SIDE 1 NMHC PPMC BYRON	SIDE 2 NMHC PPMC BYRON	
348	000						0.26	
258	348				0.480			
173	1							
0.270					0.468			
0.151								
0.088		0.151		0.151		7.70		
0.066								
0.10						6.90	21.30	
BE 2 SIPE 1 SIDE 2 SIDE 1 SIDE 2 SIDE 1				and the ore over any				
T UV RAD CONDENS CONDENS #PART>.3 #PART DEG C DEG C MW/CM2 10E3/CC 10E3/CC PART/CC PAR	010							
.657 5.6 543. 28.5 0.0 32.1 1.73 5.3 33.3 2.14	C4	DEG C	T DEG C	MW/CM2	CONDENS 10E3/CC	CONDENS 10E3/CC	#PART>.3 PART/CC	#PART>.3 PART/CC
27.7 5.6 543. 32.1 1.73 5.3 533. 33.3 2.14 0.0 529. 35.3 2.91 5.2 529. 35.3 37.2 2.68 529. 38.1				erre som blig till bur men		0.0	0.	0.
32.1 1.73 5.3 533. 33.3 2.14 0.0 529. 35.3 5.2 529. 36.3 529.				1000 St. 1000 ST. 1000 St.			543.	
35.3 2.14 35.3 2.91 5.2 529. 37.2 2.68 0.0 38.1 2.73 4.8 535. 39.5 2.54 3.8 543. 37.3 39.7 2.68 0.5 37.3 1.82 3.0 551. 37.4 1.88 0.4 549.					5.3	0.0	533.	0.
37.2 2.68 0.0 38.1 2.73 4.8 535. 39.5 2.86 0.2 543. 543. 543. 551. 551. 551. 549. 549. 549. 549. 539.		74.7						0.
38.5 2.86 0.2 39.5 2.54 3.8 543. 39.7 2.68 0.5 551. 551. 551. 549. 549. 549. 549. 539. 539. 539.				2.68				1.
39.7 2.68 0.5 37.3 1.82 3.0 551. 37.2 1.88 0.4 34.4 1.07 2.5 549. 33.5 0.98 0.4 33.0 0.80 2.0 539.		38+1		2.86				2.
37.3 1.82 3.0 551 37.2 1.88 0.4 34.4 1.07 2.5 549 33.5 0.98 0.4 33.0 0.80 2.0 539							543. 	3.
34.4 1.07 2.5 549, 33.5 0.98 0.4 33.0 0.80 2.0 539,				1.82				2.
33.0 0.80 2.0 539				1.07			549,	
.452 33.0 0.71 0.3								
								1.

---- NO DATA TAKEN

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 #PART>.5 PART/CC CLIMET	SIDE 2 *PART>.5 PART/CC CLIMET	SIDE 1 #PART>1 PART/CC CLIMET	SIDE 2 *PART>1 PART/CC CLIMET	SIDE 1 BSCAT 10-4 M-1 MRI-388	SIDE 2 BSCAT 10-4 M-1 MRI-388	SIDE AER. UM3/ TSI-0
1 605 1 835 1 845 1 1005 1 1015 1 1105 1 1115 1 1205 1 1215	-175 -25 -15 -65 -75 125 135 185	0. 504. 475. 452. 472.	0. 0. 	0. 358. 291. 232. 	0. 0. 	0.0 78.0 58.0 58.0 	0.0 0.2 0.2 	0 99 91 60 84
1 1305 1 1315 1 1405 1 1415 1 1505 1 1515 1 1605 1 1615	245 255 305 315 365 375	490. 497. 483. 471.	1.	312. 316. 295. 265.	0. 0. 	82.0 77.0 62.0 52.0	0.0	112 103 87 68
CLOCK TIME DY HR.	FLAPSED TIME (MIN)	SIDE 1 AER.S UM2/CC TSI-023	AER.S	SIDE 1 METHANE PPM BYRON	SIDE 1 N-C4 PPM DMS-1		SIDE 1 N-C10 PPM VAR 3700	SIDE N-C1 PPM VAR 3
1 605 1 735 1 835 1 845	-175 -85 -25 -15	12.	12.	1.95	0.0008 0.0016	2.0062	0.0059	0.00
1 1005 1 1015 1 1105 1 1115	65 75 125 135	1497.	32.	1.75	and the sale and the sale	0.0043	0.0052	0.00
1 1205 1 1215 1 1305 1 1315	185 195 245 255	1699. 1750.	35. 	1.77		0.0033	0.0050	0.00
1 1405 1 1415 1 1505 1 1515 1 1605	305 315 365 375 425	1579. 1321. 	21.	1.82	0.0026	0.0039 A	0.0051 	0.00
1 1615	435		10.			come come unio pued pare take		

2	SIDE 1 BSCAT	SIDE 2 BSCAT	SIDE 1 AER.V	SIDE 2 AER.V	SIDE 1 AER.N	SIDE 2 AER.N	
)	10-4 M-1	10-4 M-1					
Γ	MRI-388	MRI-388	TSI-023	TS1-023	PART/CC TSI-023	TSI-023	
	0.0	0.0	0.	0.	1940.	1940.	
	78.0		99.		4.7E 04		
.	58.0	0.2	91.	1.	3.6E 04	481.	
		0.2		4.		519.	
-	58.0		60.		3.7E 04	****	
	70.0	0.2		٥.		369.	
-	72.0	0.1	84.	3.	3.2E 04	-644.	
-	82.0		112.	J+	2.3E 04		
		0.0		1.		1423.	
-	77.0		103.		3.4E 04		
		0.0		1.		1047.	
•	62.0	0.0	87.		2.8E 04		
_	52.0	0.0	68.	2.	1.5E 04	345.	
		0.1		0.	1+32 04	830.	
	SIDE 1 N-C9 PPM VAR 3700		N-C11 PPM	N-C12 PFM	SIDE 1 N-C13 FPM VAR 3700	N-C14 PPM	N-C14 PPM
}							
•	0,0062	0.0059	0.0090	0.0111	0.0183		
							0.0108
-	0.0043		0.0078	0.0105	0.0184	0.0243	0.0100
•		** ** ·- ·- ·- ·-					***
	0.0035		0.0078	0.0108		0.0379 B	
Ø,	0.0033	0.0050	0.0078	^ ^ A	A ASA4	A A250	
	0.0033	0.0030	U+0076	0.0108	0.0201	0.0258	
	0.0035	0.0056	0.0079	0.0106	0.0205	0.0260	
•							
•	0.0039	0.0051	0.0075	0.0103	0.0186	0.0252	
			A AAA?	A A4A4 4	A AGAA 4	A A070 *	
<i>)</i>	A	0.0052 A	0.0083 A	0.0106 A	0.0200 A	0.0232 A	
							-

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CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 N-C15 FPM VAR 3700	SIDE 2 N-C15 PPM VAR 3700	SIDE 1 PAN PPM ECD-3	SIDE 2 PAN PPM ECD-3	SIDE 1 HCHO PPM CA	SIDE 2 HCHO PPM CA	SII PARI PARI TSI-
1 605	-175			0.000	0.000			183
1 735	-35	0.0362						~
1 810	-50			Hele ages after terms areas union		0.010	0 4 0 0 0	
1 835	-25	~		0.000				2.8
1 845	-15		0.0167		0.000			J
1 1005	65	0.0498		0.003				2.7
1 1015	75				0.004			
1 1105	125	0.0097		0.008			AND 1007 100 1100 1000 1000	1.8
1 1115	135		100 Mars and 100 Mars 100	TO AND LOSS STATE CASE CASE	0.008		0.000	
1 1200 1 1205	180 185	707 Min aus um mer mu		0.022		0.010	0.000	1.0
1 1205	195	***************************************		0.022	0.013			1.0
1 1305	245	0.0443		0.037	0.013			1.5
1 1315	255	V + V 7 7 3			0.018			
1 1405	305	0.0509		0.047				2.6
1 1415	315				0.023			
1 1505	365	0.0424		0.048				2.2
1 1515	375		~ 		0.028			
1 1605	425	, , , , , , , , , , , , , , , , , , ,	···	0.047				968
1 1610	430					0.050	0.004	
1 1615	435				0.629			
		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SID
CLOCK	ELAPSED	PART.075	PART.075	PART-133	PART.133	PART . 237	PART.237	PART
TIME	TIME	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART/CC	PART
DY HR.	(MIM)	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-023	TSI-
1 405	-175	0.	^	96.	96.	0	^	
1 605 1 835	-173 -25	3286.	0.	7037.	70+	0. 3321.	0.	86
1 845	-25 -15	J200+	0.	7037.	0.	3321+	49.	~
1 1005	-15 65	3374.		5471.		2386.	7/+	60
1 1015	75	JJ/71	0.	O7/11	٥.		0.	
1 1105	125	3463.		8604.		2964)		330
1 1115	135		44.		٥.		49.	
1 1205	185	2176.		7664.		3641.		601
1 1215	195		89.		48.		37.	
1 1305	245	977.		3856.		3419		927
1 1315	255		133.	******	96.		٥.	
1 1405	305	89.		3278.		3100.		747
1 1415	315		0.		169.		37.	
1 1505	365	400.		2627.		2325.		72(
1 1515	375		444.		48.		74.	
1 1605	425	488.		2169.		2325.		40(
1 1615	435		266.		48.		0.	

---- NO DATA TAKEN

SIDE 1 HCHO	SIDE 2 HCHO	SIDE 1 PART.024	SIDE 2 PART.024	SIDE 1 PART.042	SIDE 2 PART.042
PPM	PPM	PART/CC	PART/CC	PART/CC	PART/CC
CA	CA	TSI-023	TSI-023	TSI-023	T3I-023
		1837.	1837。	0.	٥.
0.010	0.000				
~~~~~		2.8E 04		4176.	
			167.		261.
		2.7E 04		-3132.	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		501.		٥.
	*** *** *** ***	1.8E 04		3480.	
			-334,		609.
0.010	0.000				
	~~~~~	1.0E 04		7395.	
			-668.		-174.
		1.5E 04		-1305.	
			835.		348.
		2.6E 04		0.	
			835.		0.
		2.2E 04		174.	
			-167.		-87.
		9686.		-435.	
0.050	0.004				
			167.		348.
0755 4	athr a	0705 4	0.7.65	OTDE 4	OTDE O
SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2
PART.237	PART - 237	PART.422 PART/CC	PART.422 PART/CC	PART.750	PART.750
PART/CC TSI-023	FART/CC TSI-023	TSI-023	TSI-023	PART/CC TSI-023	PART/CC TSI-023
121-023	151-025	151-023	131-023	(51-023	151-023
0.	0.	7.	7.	٥.	٥.
3321.		867.		147.	
	49.		0.		4.
2386.		600.		197.	
	0.		0.		18.
2964.		360.		60.	
	49.		0.	***************************************	0.
3641.		ሪ 00 •		112.	
	37.		13.		i1.
3419.		927.		214.	
	0.		7.		4.
3100,		747.		218.	
	37.	~~~~	7.		0.
2325.		720.		179.	
	74.		33.		0.
2325.		400.		151.	
	٥.	***************************************	٥.		٥.

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NOTES

A PRESSURE ROSE - RETENTION TIMES OFF (AREA MAY BE AFFECTED).

B OFF FOR UNKNOWN REASON.

0802: START FILL. WET: 6.0 DRY: 0.0 WET BULB: 18.0 DRY BULB: 32.0 R.H.= 24% DEW POINT: 8.2 C 0912: END FILL. 0924: INJECTED 5.0 ML. NO2. 0926: INJECTED 18.0 ML. NO. 0928: INJECTED 0.38 ML. PROPENE AND 0.38 ML. PROPANE. 0931: MIX BAG. 0936: DIVIDE BAG. 1100: UNCOVER BAG (T=0). 1105: WEATHER: CLEAR AND HOT.

1105: WEATHER: CLEAR AND HOT. 1315: RUN OVER.

RESULTS SIDE 1 SIDE 2
----CALC.AVG.OH(PPT) 0.040 0.031
CALC.RAD.INPUT(PPB/MIN) 0.092 0.066
-D(NO)/DT 0.59 0.33

CALC. AVG. CH = 30.8 * D LN(PROPANE/PROPENE)/DT CALC. RAD. INPUT = 16.0 * (AVG.OH) * (60+MIN.AVG.NO2)

T=0 AT 1100 PST

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BAG NO. 24 USED

ID INST. AVERAGE S.DEV UNITS VALUE DORIC-1 35.2 2.4 DEG C SIDE 1 T DEG C SIDE 2 T DORIC-1 36.1 2.0 UV RAD EPPLEY-2 3.23 0.19 MW/CM2 INST. INITIAL UNITS ID CONC. PPM SIDE 1 ОИ

B-NOX-1 0.358 B-NOX-1 0.354 PPM SIDE 2 NO SIDE 1 NO2-UNC B-NOX-1 0.112 PPM NO2-UNC 0.109 PPM SIDE 2 B-NOX-1 THC BK6800-1 4.81 PPMC SIDE 1 5.04 PPMC SIDE 2 THC BK6800-1 PROPANE DMS-1 0.0125 PPM SIDE 1 PROPANE DMS-1 0.0124 PPM SIDE 2 PROPENE DMS-1 0.0091 PPM SIDE 1 DMS-1 SIDE 2 PROPENE 0.0091 PPM

INSTRUMENTS USED

DESCRIPTION ID LABEL 1790 D-1790 DASIBI 1790 OZONE MONITOR 4600 B-NOX-1 BENDIX 8101BX NOX ANALYZER; SN300038-2 1800 DORIC-1 DORIC TEMPERATURE INDICATOR, SN 61479 4131 EPPLEY-2 EPPLEY 14290 UV RADIOMETER; UNDER BAG 4250 BYRON BYRON 401 HYDROCARBON ANALYZER 2200 DMS-1 RM-121; DIMETHYLSULFOLANE GC; FID RM-121 POROPAK-N GC; FID 2100 PN-1 4850 BK6800-1 BECKMAN CO, HC ANALYZER SN:100015D 3000 CA CHROMOTROPIC ACID HCHO ANALYSIS 4000 ECD-3 AF-LAB; 12 5% CARBOWAX-600 GC; ECD

AFF-132 NOX AIR IRRADITION 1981 SEFT. 21

		SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE
OL DOM	EL ADOES							
CLOCK	ELAPSED	OZONE	OZONE	NO	NO	NO2-UNC	NO2-UNC	NOX-U
TIME	TIME	PPM	PPM	PPM	PPM	PPM	PPM	FPM
DY HR.	(MIN)	D-1790	D-1790	B-NOX-1	B-NOX-1	B-NOX-1	B-NOX-1	кои-в
1 945	-75						title. That are page about upon	
1 1005	-55					***************************************		
1 1020	-40							
1 1035	-25	0.002	ANTO STATE Them Shade State State	0.358	the self the file ,all aft.	0.112		0.4
1 1045	-15		0.005		0.354		0.109	~
1 1100	0	0.003		0.356		0.114		0.4
1 1115	15		0.003	****	0.353		0.113	
1 1130	30	0.003		0.348		0.124		0.4
1 1145	45		0.004		0.348		0.121	
1 1200	60	0.003		0.332		0.132		0.4
1 1215	75		0.504		0.338		0.130	
1 1230	90	0.004		0.311		0.142		0.4
1 1245	105		0.004		0.322		0.132	
1 1300	120	0.006		0,286		0.158		0 . 4
1 1315	135		0.005		0.311		0.139	

----- NO DATA TAKEN

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SIDE 1 NO2-UNC FPM B-NOX-1	SIDE 2 NO2-UNC PPM B-NOX-1	SIDE 1 NOX-UNC PPM B-NOX-1	SIDE 2 NOX-UNC PCM B-NOX-1	SIDE 1 LNC3/C3=	SIDE 2 LNC3/C3=
				0.5180	
					0.5170
					0.5130
0.112		0.479	2 to 100 to 100 to 100	0.5020	
0.112	0.109		0.471		
0.114	O+107	0.486		0.4860	
0+114	0.113		€ 473		0.5220
	0+113	0.480		0.5030	
0.124	0.121		0.477		0.5550
	0+121	0.472		0.5650	
0.132	A 47A	\(\frac{1}{2}\)	0.471		0.5800
	0.130	0.470	~~~~	0.5750	
0,142		0.470	0.468		0.6110
	0.132			0.6460	
0.158		0.451	0.458	~~~~~	0.6480
	0.139		V+430		3.0.2

AFF-132 NOX AIR IRRADITION 1981 SEPT, 21

		SIDE 1	SIDE 2	SIDE 1	SIDE 2		SIDE 1	SIDE
CLOCK	ELAPSED	THC	THC	T	T	UV RAD	NMHC	เหห
TIME	TIME	FPMC	PPMC	DEG C	DEG C	MW/CM2	PPMC	199
DY HR.	(MIN)	BK6800-1	BK6800-1	DORIC-1	DORIC-1	EPPLEY-2	BYRON	BYRI
1 1035	- 25	4.81	and the other case that the	22.1			0.08	
1 1045	-15		5.04		34.1			0.0
1 1100	0			33.1		3.19	0.07	
i 1115	15				33.9	3.09		0.0
1 1130	30			34.1		3.46	0.09	
1 1145	45				35.2	3.19		0.0
1 1200	60		Chief brits sind stage often Man	36.4		3,46	0.09	
1 1215	75				36.8	3.41		0.0
1 1230	90			37.3		3.37	0.09	
1 1245	105		man on the man also see		37.7	3.23		0.0
1 1300	120			38.1		3.00	0.09	
1 1315	135				38.5	2.9i		0.0

----- NO DATA TAKEN

E 2	UV RAD MW/CM2 EPPLEY-2	SIDE 1 NMHC PPMC BYRON	SIDE 2 NMHC PPMC BYRON	SIDE 1 THC PPMC BYRON	SIDE 2 THC PPMC BYRUN	SIDE 1 PAN PPM ECD-3	SIDE 2 PAN PPM ECD-3
		0.08		2.05		0.000	
.1			0.07	~~~~	2.00		0.000
	3.19	0.07		2.00			
8.9	3.09		0.08		2.08		
	3.46	0.09		2.00			
5.2	3.19		0.08		2.10		
	3.46	0.09		2,00			
. 8	3.41		0.09		2.08		
D • 0	3.37	0.09		2.10			
7.9	3.23		0.09		2.00		
l	3.00	0.09		2.09		0.000	
8.£	2.91	A + A 1	0.09		2.11		0.000

AFF-132 NOX AIR IRRADITION 1981 SEPT. 21

CLOCK TIME DY HR.	ELAPSED TIME (MIN)	SIDE 1 HCHO FPM CA	SIDE 2 HCHO PPM CA
1 1020	-40	0.013	0.000
1 1305	125	0.000	

---- NO DATA TAKEN

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